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DIGITAL VIDEO DISC PLAYER &
VIDEO CASSETTE RECORDER

DVP3200V/37

User Manual

Thank you for choosing Philips.

Need help fast?

Read your Quick Start Guide and/or Owner's Manual first for quick tips that make using your Philips product more enjoyable.
If you have read your instructions and still need assistance, you may access our online help at

www.philips.com/usasupport
or call
1-888-PHILIPS (744-5477)
while with your product
(and Model / Serial number)

Philips vous remercie de votre confiance.

Besoin d'une aide rapide?

Les Guide de mise en route rapide et Manuel de l'utilisateur regorgent d'astuces destinées à simplifier l'utilisation de votre produit Philips. Toutefois, si vous ne parvenez pas à résoudre votre probléme, vous pouvez accéder à notre aide en ligne à l'adresse

www.philips.com/usasupport
ou formez le
1-800-661-6162 (Francophone)
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Veillez à avoir votre produit à portée de main
(et model / serial nombre)

Gracias por escoger Philips.

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Lea primero la Guía de inicio rápido o el Manual del usuario, en donde encontrará consejos que le ayudarán a disfrutar plenamente de su producto Philips. Si después de leerlo aún necesita ayuda, consulte nuestro servicio de asistencia en línea en

www.philips.com/usasupport
o llame al teléfono
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y tenga a mano el producto
(y número de model / serial)

PHILIPS

English

Return your Product Registration Card or register online at www.philips.com/usasupport today to get the very most from your purchase.

Registering your model with PHILIPS makes you eligible for all of the valuable benefits listed below, so don't miss out. Complete and return your Product Registration Card at once, ***or register online at www.philips.com/usasupport*** *to ensure:*

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Returning the enclosed card guarantees that your date of purchase will be on file, so no additional paperwork will be required from you to obtain warranty service.

*Product Safety Notification

By registering your product, you'll receive notification - directly from the manufacturer - in the rare case of a product recall or safety defect.

*Additional Benefits

Registering your product guarantees that you'll receive all of the privileges to which you're entitled, including special money-saving offers.

PHILIPS

Congratulations on your purchase, and welcome to the "family!"

Dear PHILIPS product owner:

Thank you for your confidence in PHILIPS. You've selected one of the best-built, best-backed products available today. We'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry. What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

Most importantly, you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome - and thanks for investing in a PHILIPS product.

P.S. To get the most from your PHILIPS purchase, be sure to complete and return your Product Registration Card at once, or register online at:
www.philips.com/usasupport

Know these **safety** *symbols*

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture, and objects filled with liquids, such as vases, should not be placed on this apparatus.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les choc électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

For Customer Use

Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. _____
Serial No. _____

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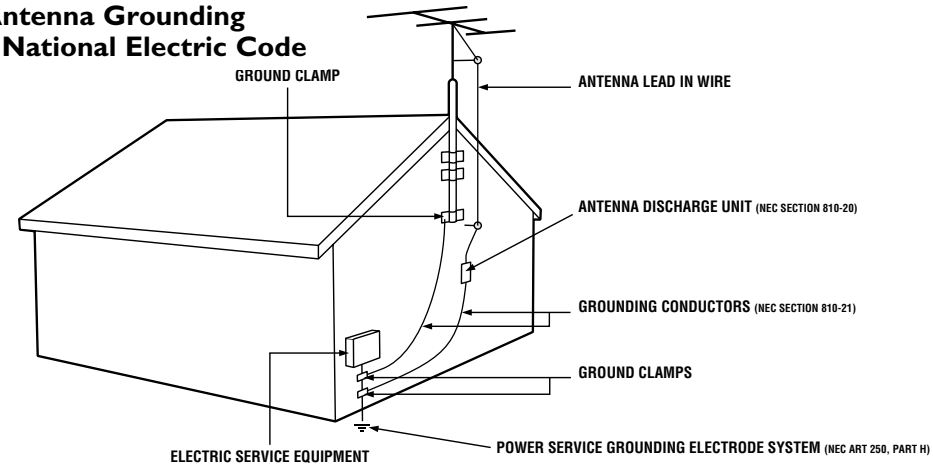
IMPORTANT SAFETY INSTRUCTIONS

Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or groundingtype plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org
16. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
    A. The power supply cord or the plug has been damaged; or
    B. Objects have fallen, or liquid has been spilled into the appliance; or
    C. The appliance has been exposed to rain; or
    D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
    E. The appliance has been dropped, or the enclosure damaged.
17. **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.
    • Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
    • Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
18. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
19. **Power Lines** - An outdoor antenna should be located away from power lines.
20. **OutdoorAntenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70- 1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure below.
21. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
    a) Warning: To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.
22. **Battery Usage CAUTION** - To prevent battery leakage that may result in bodily injury, property damage, or damage to the unit:
    • Install all batteries correctly, with + and - aligned as marked on the unit.
    • Do not mix batteries (old and new or carbon and alkaline, etc.).
    • Remove batteries when the unit is not used for a long time.
23. **Overloading** - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
24. **Object and Liquid Entry** - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
25. **Replacement Parts** - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
26. **Safety Check** - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Example of Antenna Grounding as per NEC - National Electric Code


GROUND CLAMP
ANTENNA LEAD IN WIRE
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)
ELECTRIC SERVICE EQUIPMENT

4 Safety Information (cont'd)

Safety Precautions

Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.
Federal Communications Commission (FCC) Warning: Any unauthorized changes or modifications to this equipment void the user's authority to operate it.

- Do not stand the unit up vertically. Install the unit in a horizontal and stable position.
- Be sure to remove the disc and unplug the AC power cord from the outlet before carrying the unit.

Department of Health and Human Services (DHHS) Certification: Complies with 21 Center for Radiation (CFR) chapter 1 subchapter J applicable at time of manufacture.

Laser Safety: This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.
CAUTION: USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
CAUTION: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. DO NOT STARE INTO BEAM. THE BEAM IS LOCATED INSIDE, NEAR THE DECK MECHANISM.

Special Information for Canadian Users: This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Radio/TV Interference: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1) Reorient or relocate the receiving antenna.
2) Increase the separation between the equipment and the receiver.
3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4) Consult the dealer or an experienced radio/TV technician for help.

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Copyright Protection: Unauthorized copying, broadcasting, public performance, and lending of Discs are prohibited.
This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Notice for Progressive Scan Use: Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of picture problems with 525 progressive scan output, it is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding your TV set compatibility with this 525p DVD player, please contact our customer service center.

Declaration of Conformity

Model Number:	DVP3200V/37
Trade Name:	Philips
Responsible Party:	Philips Consumer Electronics North America P.O. Box 671539 Marietta, GA 30006-0026 1-888-PHILIPS (744-5477)

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English

6 Introduction

Welcome!

This DVD/VCR combines a Digital Video Disc (DVD) player and a Hi-Fi Video Cassette Recorder (VCR) into one unit, letting you play DVDs, Audio Compact Discs (Audio CDs), and Video Cassettes on one piece of equipment.
Read this owner's manual carefully to learn how to use the features listed below.

VCR Features

- Automatic Head Cleaner
- Channel Setup
- English, French and Spanish menus and displays
- Multi-Channel TV Sound
- 19 Micron head
- Recording: One-Touch and Timer
- Repeat Playback
- Searching: Time, Index, Forward and Reverse
- Still Picture
- Tape Counter
- The VCR Plus+ Programming System
- Tracking Adjustment

Disc Features

- Audio Language choices *
- Camera Angles *
- DVD menus in a desired language *
- Markers
- MP3 Playback
- JPEG Playback
- DivX® Playback
- Windows Media™ Audio Playback
- Dual Playback
- Parental control *
- Paused/Fast/Slow/ Step-by-Step Playback
- Program Playback
- Progressive Scan
- Random Playback
- Repeat, A-B Repeat
- Resume On
- Specific Time/Title/ Chapter/Track Search
- Subtitles *
- Zoom

* *If available on the disc*

Package Contents

The following items are provided with your new DVD/VCR.

- Remote Control and two AAA batteries
- One black RF coaxial cable, 75 ohm
- One set of Audio (red and white tips) and Video (yellow tips) cables
- This Owner's Manual and Quick Start Guide

DVD Disc menus...

Some explanations in this manual describe DVD disc menus. DVD manufacturers set the menus, which vary among DVDs. Not all DVDs have menus. If the DVD has a menu, access it by pressing DVD, then DISC/VCR MENU on the remote control.
Details are on page 40.

DVD Player Setup menu...

Some instructions explain how to use the DVD player's Setup menu to set up features of the DVD player or a DVD. Access the DVD player menu by pressing DVD/SETUP on the remote control when playback is stopped. Even if a feature is set in the DVD player's menu, it may not be available if the current DVD does not include that feature.

Available Disc Features...

All features described in this manual are not available on every disc. If the feature is not available on the disc, you cannot use the DVD/VCR to make it available. An "X" will appear in the top right corner of the TV screen if you try to access a feature that is not currently available.

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Playable Discs and Video Cassettes 7

Playable Discs

The DVD player will play Digital Video Discs (DVDs); finalized Digital Video Discs Rewritable (DVD+RW); Video Compact Discs (VCDs); Audio Compact Discs (CDs); finalized Compact Discs Recordable (CD-R) and Compact Discs Rewritable (CD-RW).
To play a DVD, make sure it meets the requirements for Region Codes and Color Systems as described below. Discs that have the following logos will play on the DVD player. Other disc types are not guaranteed to play in the DVD/VCR.
On a Super Audio CD, only the sound on the normal CD layer can be heard. The sound on the high-density Super Audio CD layer cannot be heard.
• Do not stand the unit up vertically. Install the unit in a horizontal and stable position.
• Be sure to remove the disc and unplug the AC power cord from the outlet before carrying the unit.

DVD | DVD+R | DVD+RW | Video CD | Audio CD | CD-R | CD-RW | MP3 files | DivX® files

DVD is a trademark of DVD Format/Logo Licensing Corporation.

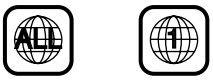
Windows Media is a trademark of Microsoft Corporation.
DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license.
• Official DivX Certified™ product; Plays DivX® 6.0, DivX® 5, DivX® 4, DivX® 3, and DivX® VOD video content (in compliance with DivX Certified™ technical requirements).
• Discs containing the DivX® files with the DivX® GMC (Global Motion Compensation) playback feature, which is DivX® supplemental function, cannot be played back on this unit.

ABOUT THE PBC FUNCTION OF VIDEO CD

This unit can play Video CD 1.1 (without PBC) and 2.0 (with PBC).
With version 2.0 (with PBC), you can use interactive menu (e.g., playlists) on the TV screen.
When playing a Video CD with PBC, some operations cannot be performed unless the PBC function is cancelled temporarily. See page 40 for more details.

Region Codes

DVDs must be labeled for ALL regions or for Region 1 in order to play on this DVD player. You cannot play DVDs that are labeled for other regions.
Look for the symbols below on your DVDs. If these region symbols do not appear on your DVD, you cannot play the DVD in this player.



The number inside the globe refers to a region of the world. Region 1 represents the United States, Canada, upper regions of North America, Bermuda, the U.S. Virgin Islands, and small regions near Australia.
A disc encoded in a specific region format can only play on DVD players with the same region code. For example, if a disc is labeled for Region 2, you cannot play the DVD on this player.

Color Systems

Different color systems are available throughout the world. The most common color systems are NTSC, which is used primarily in the United States and North America, PAL, and SECAM.
This DVD player will play both NTSC and PAL DVDs. You cannot play DVDs recorded in other formats.
The color system of the DVD may be listed on the DVD or on the disc case. Your TV must have the NTSC and/or PAL color system as well.

Playable Video Cassettes

The VCR of this DVD/VCR has a High Quality (HQ) system and is compatible with existing Video Home System (VHS) equipment. Use only video cassettes that have the VHS mark. The use of other tapes may result in poor picture quality and excessive deposits on the video heads, which may not be covered by the warranty if damage occurs.
The VCR also has a 19 micron head, which provides a better picture when you view tapes recorded in slow speed (SLP).

Unacceptable Discs

If you insert an unacceptable type of disc, a Disc Error message may appear on the TV screen. The following discs will not play on this DVD player.
• CD-ROM
• Compact Disc-Interactive (CD-I)
• DVD-RAM
• Video Single Disc (VSD)
• DVD-ROM
• DVD-Audio
• Unfinalized disc
• DVD contains MP3, Windows Media™ Audio or JPEG files
• DVD-R or DVD-RW discs recorded in VR format or non-compatible recording mode

On the following disc, the sound may not be heard.
• Super Audio CD - Only the sound on the CD layer can be heard. The sound on the high-density Super Audio CD layer cannot be heard.

8 Hookups

Determining the best possible connection...

Your hookup will be determined primarily by your existing equipment, especially your TV. These guidelines describe which options have the best picture and sound quality. You will not use all the jacks on the DVD/VCR.

If your TV only has an RF-style jack, usually labelled Antenna In, RF In or 75 ohm, use the ANT-OUT jack of the DVD/VCR to connect to the TV. This hookup provides both audio and video in a single cable. Set your TV to channel 3 or 4 - the output channel of the DVD/VCR. This connection allows you to use both the DVD and VCR features. See page 9.

★★★★ If your TV has Component Video In jacks (which could be labelled Y CR CB, Y PR PB or YUV and may be green, blue and red), use the Component Video jacks (Y C_B/P_B C_R/P_R) for the best picture quality. If you use only this video connection, only the DVD picture will be available. To see DVD features on the TV, set the TV to its Component Video In channel. Component Video provides the best picture quality. See page 12.
Progressive Scan provides less flickering and higher image resolution than traditional (525i/480i or interlace) TV signals.
If your TV has Progressive Scan (525p/480p or progressive), connect the TV to the DVD/VCR's COMPONENT VIDEO OUT (Y C_B/P_B C_R/P_R) jacks. Set Progressive Scan (PROG. SCAN) to ON in the DVD/VCR's DISPLAY menu. See pages 60-61. P.SCAN will appear on the DVD/VCR's display panel. Set your TV to Progressive Scan also.
If your TV does not have Progressive Scan but has Component Video In jacks, connect them to the DVD/VCR's COMPONENT VIDEO OUT jacks (Y C_B/P_B C_R/P_R). Set Progressive Scan (PROG. SCAN) to OFF either in the DISPLAY menu or by pressing and holding PLAY ► (DVD) on the front of the DVD/VCR for more than 5 seconds. See pages 60-61.

★★★ If your TV has an S-Video In jack (which also may be labelled Y/C or S-VHS), use the S-VIDEO OUT jack for excellent picture quality. If you use only this video connection, only the DVD picture will be available. To see DVD features on the TV, set the TV to its S-Video In channel. See page 12.

★★ If your TV has a single yellow Video In jack (which also may be labelled CVBS, Composite or baseband), use the yellow DVD/VCR VIDEO OUT jack for good picture quality. This connection provides a picture for both the DVD player and the VCR. To see DVD or VCR features on the TV, set the TV to its Video In channel. See page 10.

★★★★ If you have a Stereo with a Coaxial Digital Audio In jack, this provides the clearest sound for the DVD player. Connect the DVD/VCR's COAXIAL DIGITAL AUDIO OUT jack to your Stereo for the best sound quality. If you use only this audio connection, only disc sound (no VCR) will be available. See page 14.

★★★ If digital audio connections are not possible, connect the DVD/VCR's red and white DVD/VCR AUDIO OUT jacks to the Audio In jacks of your Stereo or TV. This connection provides sound for both the DVD player and the VCR. See pages 12-13.

Before you begin...

- Refer to the manuals of your TV, Cable Box, Stereo or other devices as necessary. Note the style of jacks and connectors on the other equipment. Determine how to choose different Audio and Video In channels on your other equipment so you can see and hear the DVD/VCR material playing on the TV, Stereo, etc.
- Disconnect all equipment from the power outlets. Connect the equipment to power only after you have finished hooking up everything. Never make or change connections with equipment connected to power.

Remember...

- Set the TV to the correct Video In channel. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1 or External In, etc. These channels often are located near channel zero (0). Or, your TV's remote may have a button or switch that selects the Video Input channel. See your TV manual for details. If you do not see the DVD or VCR playback on the TV, go to the lowest TV channel (01 or 02) and change channels downward until you see the DVD or VCR picture on the TV. Or, if your TV has only a single Antenna In jack and you are using the RF coaxial cable (as described on page 9), set the TV to channel 3 or 4.
  To help you find the right Audio/Video In channel, turn on the DVD/VCR. Press DVD to put the DVD/VCR in DVD mode. With no disc in the player, a large DVD Video logo will appear on the TV screen when you get the TV on the correct Audio/Video In channel or channel 3 or 4.
- Set the Stereo to the correct channel or "source" mode.
- Depending on your connection, you may need to purchase additional cables or adaptors. If your TV or monitor has BNC-type connectors, you will need an adaptor.
- **To use the VCR features, you must include a connection with the supplied yellow video cable and red/white audio cable or with the supplied RF coaxial cable.**

Once you determine the best option, find your choice on pages 9-14. Follow the steps for the hookup you choose. Then, go to page 16 to complete the first-time setup.

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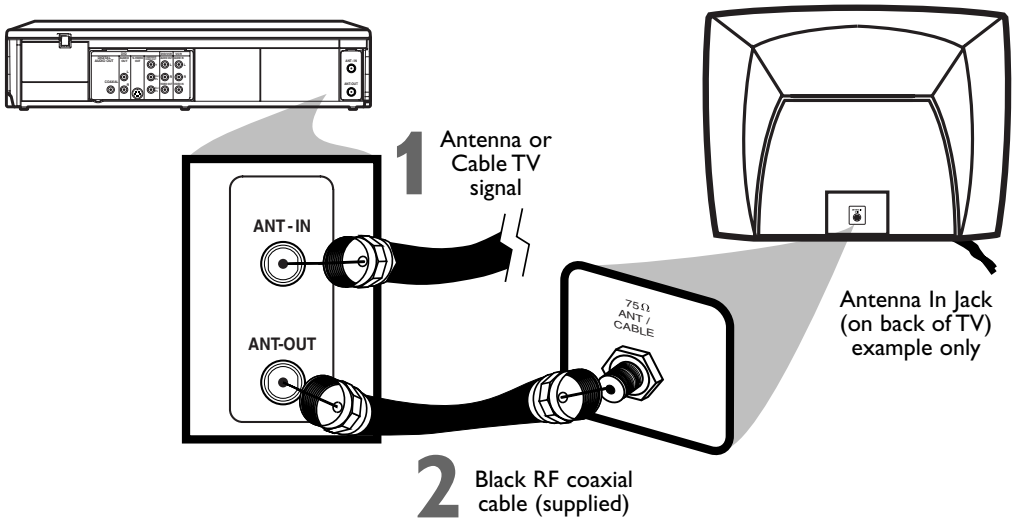
DVD/VCR to TV only

Simplest connection using only the supplied black RF coaxial cable
This connection will let you use the features of both the VCR and the DVD player.



1 **Disconnect the antenna or Cable TV signal from your TV and connect it to the ANT-IN (Antenna In) jack of your DVD/VCR.**

2 **Connect the supplied black RF coaxial cable to the ANT-OUT (Antenna Out) jack on the back of the DVD/VCR and to the ANTENNA IN jack on the TV.** The ANTENNA IN jack on the TV may be labelled TV IN, RF IN, 75Ω (ohm) or ANT-IN. See your TV owner's manual for assistance.

3 **Plug in the power cord of your TV. Turn on the TV and set it to channel 3 or 4.**

4 **Plug in the power cord of the DVD/VCR. You are ready to turn on the DVD/VCR. Go to page 16 before turning it on.**
The DVD/VCR's output channel is 3 when you purchase it. So, set your TV to channel 3 when the DVD/VCR is new.
If you cannot use channel 3 at your TV, you can change the DVD/VCR's output channel to channel 4. To do so, press VCR to put the DVD/VCR in VCR mode. VCR light will be on the front of the DVD/VCR. Insert a videotape and press PLAY ► to start playback. **During playback, press and hold (VCR) PLAY ► on the front of the DVD/VCR for 3-5 seconds.** Each time you do this, the DVD/VCR's output channel switches between 3 and 4, and the selected channel number appears on the display panel. Change your TV to channel 3 or 4 accordingly. (You cannot change the DVD/VCR's output channel while adjusting tracking manually. Press STOP ■ to stop playback and cancel manual tracking, then press PLAY ► to resume playing and change the output channel.)
There is not a channel 3/4 switch on the DVD/VCR (as customary with most VCRs).

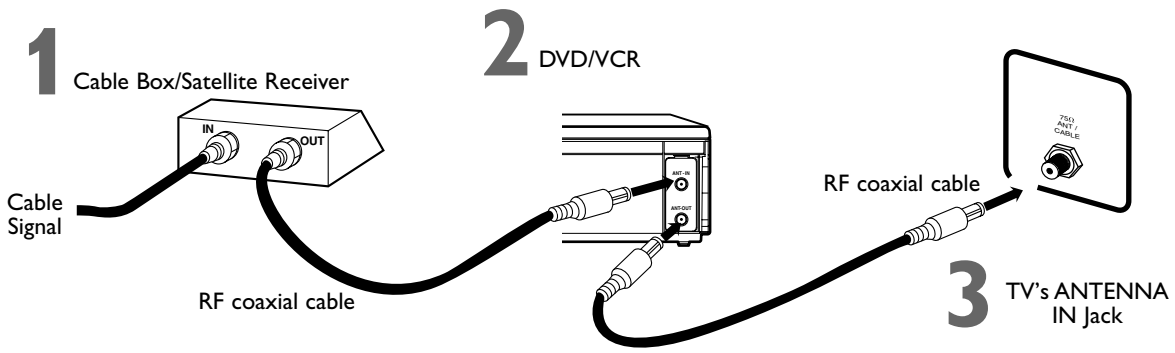
English

10 Hookups (cont'd)

DVD/VCR to Cable Box or Satellite Receiver and TV

Using only basic RF coaxial cables

This connection will let you use the features of both the VCR and the DVD player.



Connections

1. **Connect a Cable TV or Satellite signal to the IN jack on the Cable Box/Satellite Receiver.**
2. **Use an RF coaxial cable (as the one supplied) to connect the OUT jack on the Cable Box/Satellite Receiver to the ANT-IN (Antenna In) jack on the DVD/VCR.**
3. **Use a second RF coaxial cable to connect the ANT-OUT (Antenna Out) jack on the DVD/VCR to the TV's Antenna In jack.**
4. **Plug in the power cord of your TV. Turn on the TV and set it to channel 3 or 4.**
5. **Plug in the power cord of the DVD/VCR. You are ready to turn on the DVD/VCR. Go to page 16 before turning it on.**

Remember...

There are two ways to connect your Cable Box/Satellite Receiver to the DVD/VCR. With the connection on this page:

- Select TV channels at the Cable Box/Satellite Receiver, not the DVD/VCR. To record or view TV channels, follow these steps:
  1) Press VCR to put the DVD/VCR in VCR mode. VCR light will appear on the front of the DVD/VCR.
  2) Press CH + or CH - to set the DVD/VCR to the Cable Box/Satellite Receiver output channel (03 or 04).
  3) Set the TV to the DVD/VCR's output channel (03 or 04). The DVD/VCR's output channel is channel 3 as a default. To change it from 3 to 4, press and hold PLAY ► (VCR) on the DVD/VCR for 3-5 seconds during tape playback. *For more details, see step 4 on page 9.*
  4) Select the channel you want to view/record at the Cable Box/Satellite Receiver.
- You may not view a channel other than the one you are recording.
- You can only program a timer recording for one channel at a time. Set your Cable Box/Satellite Receiver to the channel you want to record. When you enter the channel you want to record in a timer recording, select channel 03 or 04 (the Cable Box/Satellite Receiver output channel). (This is step 8 on page 28.) Leave the Cable Box/Satellite Receiver on for a timer recording.

Helpful Hint

- If your Cable Box or Satellite Receiver has Audio and Video Out jacks, use audio and video cables to connect them to the VCR AUDIO IN and VIDEO IN jacks on the rear of the DVD/VCR. You will not need the RF coaxial cable connection between the Cable Box/Satellite Receiver and the DVD/VCR as described at step 2.

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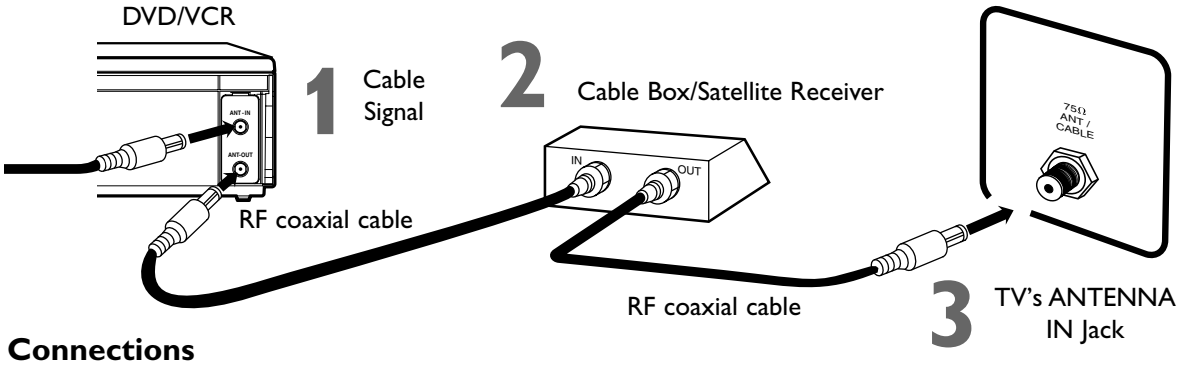
DVD/VCR to Cable Box or Satellite Receiver and TV

Using only basic RF coaxial cables

This connection will let you use the features of both the VCR and the DVD player.



Connections

1. **Connect a Cable TV or Satellite signal to the DVD/VCR's ANT-IN (Antenna In) jack.**
2. **Use an RF coaxial cable (as the one supplied) to connect the ANT-OUT (Antenna Out) jack on the DVD/VCR to the IN jack on the Cable Box/Satellite Receiver.**
3. **Use a second RF coaxial cable to connect the OUT jack on the Cable Box/Satellite Receiver to the ANTENNA IN jack on the TV.**
4. **Plug in the power cord of your TV. Turn on the TV and set it to channel 3 or 4.**
5. **Plug in the power cord of the DVD/VCR. You are ready to turn on the DVD/VCR. Go to page 16 before turning it on.**

Remember...

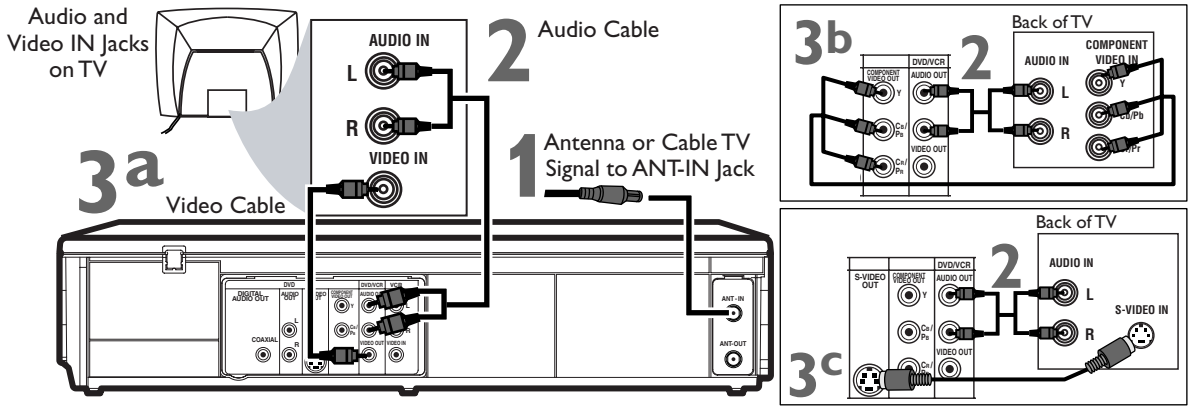
There are two ways to connect your Cable Box/Satellite Receiver to the DVD/VCR. With the connection on this page:

- You may watch one channel while recording another. Follow these steps:
  1) Put the Cable Box/Satellite Receiver on the same channel as the DVD/VCR's output channel (03 or 04). The DVD/VCR's output channel is channel 3 as a default. To alternate it between 3 and 4, press and hold PLAY ► (VCR) on the front of the DVD/VCR for 3-5 seconds during tape playback. *For details, see step 4 on page 9.* Set the TV to the Cable Box/Satellite Receiver output channel (03 or 04).
  2) Press VCR to put the DVD/VCR in VCR mode. VCR light will appear on the front of the DVD/VCR.
  3) Press TV/VIDEO on the remote to choose VCR position.
  4) Press CH + or CH - to select the channel you want to record at the DVD/VCR. Press REC ● to start the recording.
  5) Press TV/VIDEO on the remote once to put the DVD/VCR in TV position.
  6) Select the channel you want to watch at the Cable Box/Satellite Receiver.
- When you play a tape or disc, make sure the Cable Box/Satellite Receiver is set to the DVD/VCR's output channel (03 or 04). Set the TV to the Cable Box/Satellite Receiver output channel (03 or 04).

English

12 Hookups (cont'd)

DVD/VCR to a TV that has Audio/ Video, Component Video or S-Video In jacks



1 **Connect the antenna or Cable TV signal to the ANT-IN (Antenna In) jack of your DVD/VCR.**

2 **Connect the red and white audio cable (supplied) to the red and white DVD/VCR AUDIO OUT jacks on the DVD/VCR and to the red and white AUDIO IN jacks on the TV.** Match the cable colors to the jack colors. If the TV has a single AUDIO IN jack, use the white audio cable to connect the DVD/VCR's white DVD/VCR AUDIO OUT (left) jack to the TV's AUDIO IN jack. You will not use the red cable. Or, purchase a "splitter" audio cable to go from the left/right AUDIO OUT jacks of the DVD/VCR to the TV's single AUDIO IN jack.

3a **Connect the yellow video cable (supplied) to the DVD/VCR VIDEO OUT jack on the DVD/VCR and to the VIDEO IN jack on the TV.** The VIDEO IN jack on the TV is usually yellow and may be labelled CVBS, Composite or Baseband video.

3b **Connect component video cable (not supplied) to the COMPONENT VIDEO OUT jacks on the DVD/VCR and to the COMPONENT VIDEO IN jacks on the TV.** The Component Video In jacks on the TV are usually red, blue and green.

3c **Connect an S-Video cable (not supplied) to the S-VIDEO OUT jack on the DVD/VCR and to the S-VIDEO IN jack on the TV.**

The connections 3b and 3c only supply video (picture) for the DVD player of the DVD/VCR. Therefore, in order to use the VCR features or view TV channels at the DVD/VCR, you still need to either connect the RF coaxial cable between the ANT-OUT jack of the DVD/VCR and the TV's Antenna In jack, or connect the yellow video cable. To connect the supplied RF coaxial cable, see step 2 on page 9. To connect the supplied yellow video cable, see step 3a.

4 **Connect the power cords of the TV and the DVD/VCR to a power outlet. Turn on the TV and set it to the correct Video In channel.** If you are using the RF coaxial cable for VCR playback, choose channel 3 or 4 at the TV. If you are using the yellow video cable for VCR playback, choose the Video In channel at your TV. To find the correct Video In channel, go to your lowest TV channel and change channels downward until you see VCR playback on the TV screen. To help you find the right Video In channel, turn on the DVD/VCR. Press DVD to put the DVD/VCR in DVD mode. With no disc in the player, a large DVD Video logo will appear on the TV screen when you get the TV on the correct Video In channel.

5 **You are ready to turn on the DVD/VCR. Go to page 16 to complete the first-time setup.**

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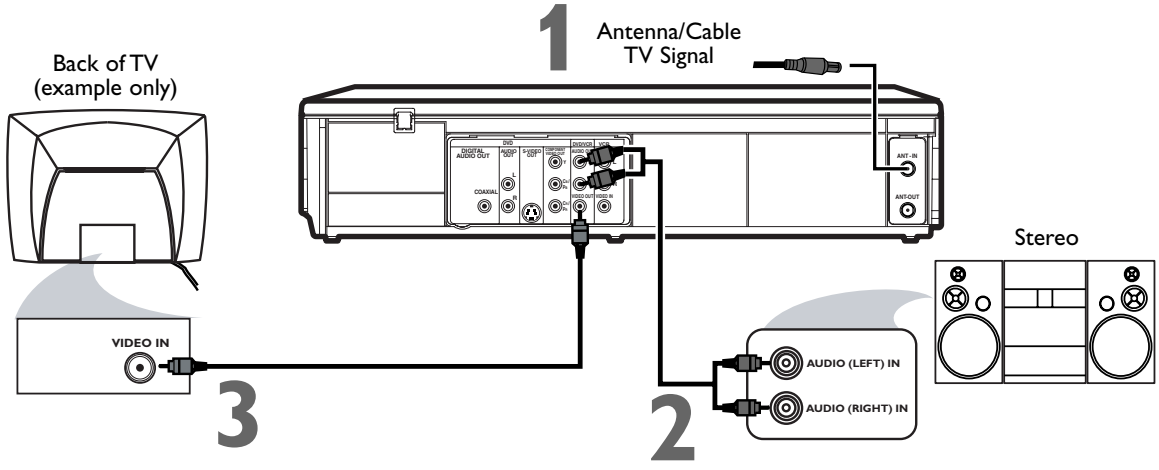
DVD/VCR to a TV and a Stereo



1 **Connect the antenna or Cable TV signal to the ANT-IN (Antenna In) jack of your DVD/VCR.**

2 **Connect the supplied red and white audio cable to the red and white DVD/VCR AUDIO OUT jacks on the DVD/VCR and to the red and white AUDIO IN jacks on the Stereo.** Match the cable colors to the jack colors.

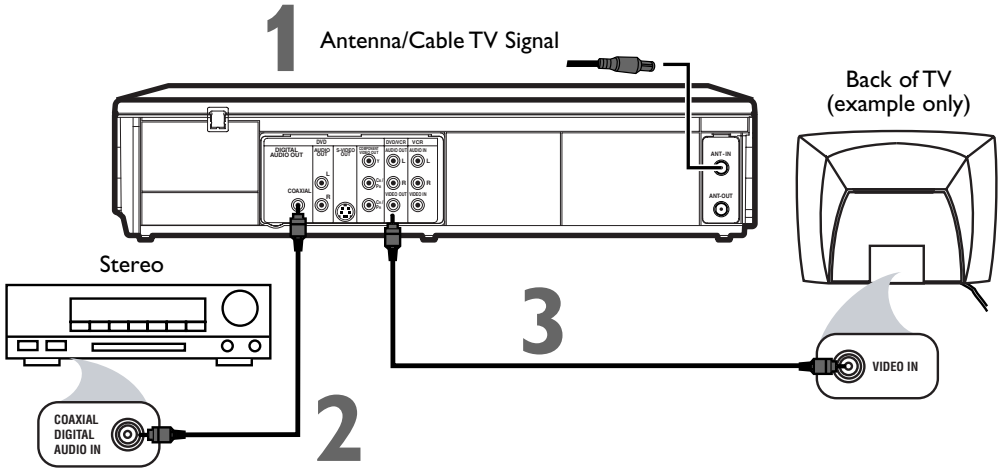
3 **Connect the supplied yellow video cable to the DVD/VCR VIDEO OUT jack on the DVD/VCR and to the VIDEO IN jack on the TV.**
To use Component Video cable or S-Video cable instead for the DVD player, see page 12. You will still need the yellow video cable or RF coaxial cable for VCR features.

4 **Connect the power cords of the DVD/VCR, TV and Stereo to a power outlet. Turn on the TV and set it to the Video In channel.** Or, simply go to your TV's lowest channel (01 or 02) and continue changing channels downward at the TV until you see VCR or DVD playback on the TV screen.
To help you find the right Video In channel at the TV, turn on the DVD/VCR. Press DVD to put the DVD/VCR in DVD mode. With no disc in the player, a large DVD Video logo will appear on the TV screen when you get the TV on the correct Video In channel.
Turn on the Stereo and set it to the correct auxiliary or source mode. Check your Stereo manual for details.

5 **You are ready to turn on the DVD/VCR. Go to page 16 before turning on the DVD/VCR.**

14 Hookups (cont'd)

DVD/VCR to a TV and to a Stereo that is Dolby Digital-compatible Using Digital Audio connections



1 **Connect the antenna or Cable TV signal to the ANT-IN (Antenna In) jack of your DVD/VCR.**

2 **Connect a coaxial digital audio cable (not supplied) to the DVD/VCR's COAXIAL DIGITAL AUDIO OUT jack and to the COAXIAL DIGITAL AUDIO IN jack on the Stereo.**
This digital audio connection only provides sound for the DVD player of the DVD/VCR. So, in order to use the VCR features or hear TV channels at the DVD/VCR, you still need to either connect the RF coaxial cable between the ANT-OUT jack of the DVD/VCR and the TV's Antenna In jack, or connect the supplied red/white audio cable. To connect the supplied RF coaxial cable, see step 2 on page 9. To connect the red/white audio cable, see step 2 on page 12.

3 **Connect the supplied yellow video cable to the yellow DVD/VCR VIDEO OUT jack on the DVD/VCR and to the VIDEO IN jack on the TV.** To use component video cable or S-Video cable instead for the DVD player, see page 12. You will still need the yellow video cable or RF coaxial cable for VCR features.

4 **Plug in the power cords of the Stereo, TV and DVD/VCR. Turn on the Stereo and select its Auxiliary IN channel. Turn on the TV and set it to the correct Video In channel.** Go to your TV's lowest channel (01 or 02) and change channels downward until you see DVD or VCR material on the TV screen. To help you find the right Video In channel on the TV, turn on the DVD/VCR. Press DVD to put the DVD/VCR in DVD mode. With no disc in the player, a large DVD Video logo will appear on the TV screen when you get the TV on the correct Video In channel.
Make sure Progressive Scan (PROG. SCAN) is OFF and P.SCAN does not appear on the DVD/VCR's display panel. Disable Progressive Scan either in the DISPLAY menu or by pressing and holding PLAY ► (DVD) on the front of the DVD/VCR for more than 5 seconds. *Details are on pages 8 and 61.*

5 **You are ready to turn on the DVD/VCR. Go to page 16 before turning on the DVD/VCR.**

Remember...

Some DVDs are recorded in Dolby Digital Multi-channel Surround Sound. Select Dolby Digital Multi-channel Surround Sound in the DVD disc menu. If Dolby Digital Surround Sound is not recorded on the disc, you will not have surround sound available.
If you connect the DVD/VCR to a Dolby Digital Stereo, set DOLBY DIGITAL to BITSTREAM in the DVD player's Setup menu. *Details are on page 62.* If the DVD/VCR is not connected to a Dolby Digital-compatible Stereo, set DOLBY DIGITAL to PCM. Incorrect settings may cause noise distortion and damage the speakers.

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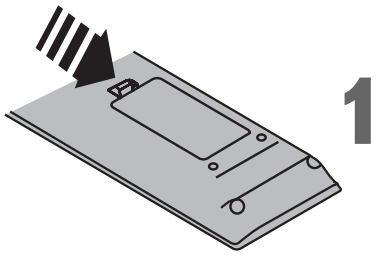
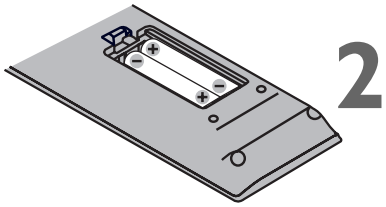
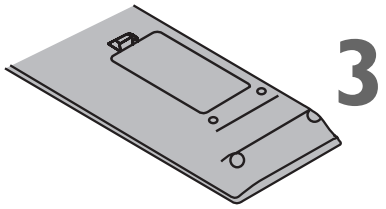
Putting Batteries in the Remote Control



1 **Remove the battery compartment lid** on the bottom of the remote control by pressing the tab, then lifting the lid.



2 **Place two AAA batteries inside the battery compartment** with their + and – ends aligned as indicated.



3 **Replace the battery compartment lid.**

Using the Remote Control

- Point the remote control at the DVD/VCR's remote sensor (see page 20) when using the remote to operate the DVD/VCR. Do not point the remote at the TV.
- Do not put objects between the remote and the DVD/VCR.

Recycling Guidelines/Battery Safety

- Your new product and its packaging contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount that needs to be properly disposed. Your product uses batteries that should not be thrown away when depleted but should be disposed of as small chemical waste. Please find out about the local regulations on disposal of your old product, batteries and packaging whenever you replace existing equipment.
- Battery Usage CAUTION - To prevent battery leakage that may result in bodily injury, property damage or damage to the unit:
  - Install ALL batteries correctly, with the + and – markings on the battery aligned as indicated on the unit.
  - Do not mix batteries, for example, old with new or carbon with alkaline.
  - Remove batteries when the unit will not be used for a long time.

English

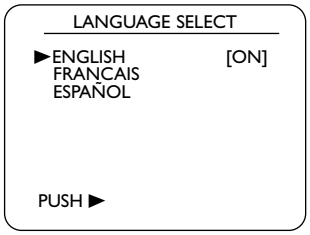
16 First-time DVD/VCR Setup

Before turning on your DVD/VCR, make sure batteries are in the remote control and the DVD/VCR and TV are connected correctly. You cannot program channels if you are using a Cable Box or a Satellite Receiver.

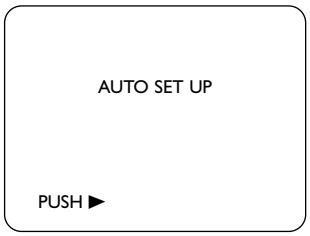
These menus may not appear if you have already turned on the DVD/VCR.

1 **Turn on the TV. Set it to channel 3 or 4 or its AUDIO/VIDEO IN channel,** depending on how you connected the DVD/VCR to a TV.

2 **Press VCR, then press** ⏻**.** VCR light will appear on the front of the DVD/VCR. The display shown below will appear. These menus may not appear if you have already turned on the DVD/VCR. You may have turned on the DVD/VCR before to find the Audio/Video In channel of the TV, for example. If so, follow the steps on page 21 to set up channels and page 23 to select a language for the VCR menus.



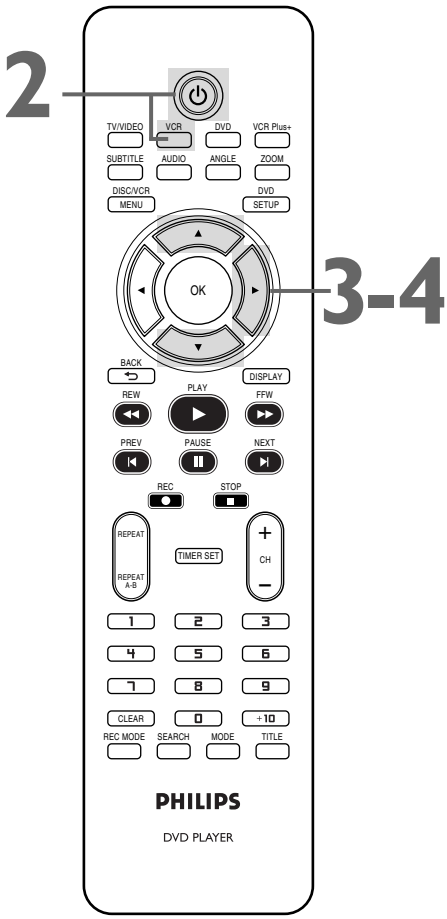
3 **Press ▲ or ▼ to select ENGLISH, FRANCAIS (French) or ESPAÑOL (Spanish)** as the language for VCR On-Screen Displays and menus. **Then, press ►.** The display shown below will appear.



4 **Press ► to begin channel programming.** AUTO SET UP will flash on the TV screen during the Channel Search. The DVD/VCR will memorize all available channels. When channel programming is complete, the lowest available channel will appear on the TV.

These channels will be available when you want to watch TV while in VCR mode. To put the DVD/VCR in VCR mode, press VCR so VCR light appears. Use CH + or CH - to select memorized channels. To select non-memorized channels, use the Number buttons.

1 Turn on the TV.



Helpful Hints

- To skip this feature and play a tape immediately, insert a tape with its record tab removed.
- If you like to skip step 4, press DISC/VCR MENU as soon as the search begins. The DVD/VCR will stop the Channel Search, and the VCR menus and displays will be in English.
- If you try to program channels when there is no antenna or Cable TV signal connected to the ANT-IN jack of the DVD/VCR, programming will stop. AUTO SET UP will stop flashing. Connect an antenna or Cable TV signal to the DVD/VCR's ANT-IN jack and press ► again.
- Repeat this process if the power fails.

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Video Cassette Playback 17

Read and follow the steps below to play a tape.

1 **Turn on the TV. Set it to channel 3 or 4 or its AUDIO/VIDEO IN channel.** This depends on how you connected the DVD/VCR to a TV.
Details are on pages 8-14.

2 **Insert a tape in the cassette compartment of the DVD/VCR.** VCR light will appear on the front of the DVD/VCR. If the tape's record tab has been removed, playback will start automatically.
If the DVD/VCR power is already on, press VCR to put the DVD/VCR in VCR mode if necessary. VCR light will appear on the front of the DVD/VCR.

3 **If playback does not start automatically, press VCR, then press PLAY ►.**

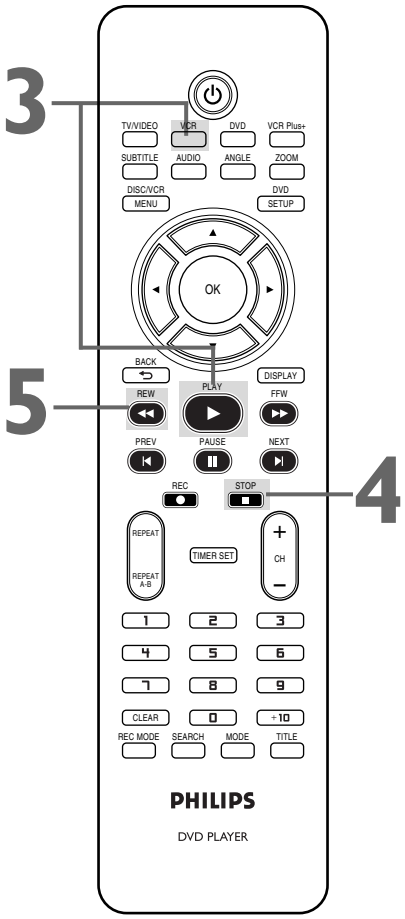
4 **Press STOP ■ to stop playback.**

5 **Press REW ◄◄ to rewind the tape.**

6 **After the tape stops, press STOP/EJECT ■▲ on the front of the DVD/VCR to remove the tape.**

1 Turn on the TV.

2 Insert a tape in the DVD/VCR.



6 Press STOP/EJECT ■▲ **on the DVD/VCR.**

Helpful Hints

- Other tape playback features are on pages 36-39.
- If AUTO REPEAT is ON, playback will begin when you insert a tape, even when the record tab is intact. *Details are on page 36.*
- You must connect the DVD/VCR to a TV using the RF coaxial cable or the audio/video cables in order to use the VCR features. These hookups are explained on pages 9 and 12.

English

18 Disc Playback

Before you begin, turn on the TV, Stereo and other equipment connected to the DVD/VCR. Make sure the TV and the Stereo (if applicable) are set to the correct channel.
Details are on pages 8-14.

1 **Press ⏻ to turn on the DVD/VCR.**

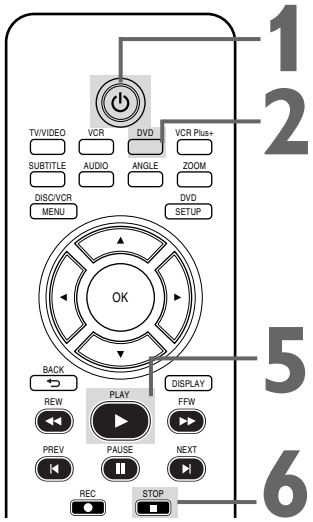
2 **Press DVD so DVD light appears on the front of the DVD/VCR.**

3 **Press OPEN/CLOSE ⏏ on the DVD/VCR to open the disc tray.**

4 **Place a disc into the tray.** If the DVD is recorded on only one side, place the disc in the tray with the label facing up and the shiny side facing down. Some DVDs are recorded on both sides. Make sure the label of the side you want to play is facing up.

5 **Press PLAY ► to close the tray.** The tray will close and playback will begin. If playback does not start automatically, press PLAY ► again.
If a DVD menu appears instead, see page 40.
To play MP3, Windows Media™ Audio, JPEG or DivX® files, see pages 51-54.
You also can close the tray by pressing OPEN/CLOSE ⏏.

6 **Press STOP ■ to stop playback.**



3 Press OPEN/CLOSE ⏏ **on the DVD/VCR.**

4 Insert a disc.

Helpful Hints

- An "**X**" may appear at the top right corner of the TV screen when you try a feature. Either the feature is not available on the disc, or the DVD/VCR cannot access the feature at this time. This does not indicate a problem with the DVD/VCR.
- If a disc is dirty or scratched, the picture may appear distorted or playback may stop. In such cases, remove the disc and turn off the DVD/VCR. Disconnect the power cord, then reconnect it. Clean the disc, then turn on the DVD/VCR again and reinsert the disc for playback.
- If a disc has multiple layers, the picture may freeze occasionally. This happens when the first layer switches to the second layer. This is not a malfunction.
- When the DVD or CD light appears on the display panel, the disc is loaded and ready for playback.
- When you press OPEN/CLOSE ⏏ or PLAY ► (DVD) on the front of the DVD/VCR when the power is off, the DVD/VCR will turn on in DVD mode. Otherwise, the DVD/VCR will turn on in the mode in which it was turned off.
- If you use PLAY ► to close the disc tray, playback starts automatically. If you use OPEN/CLOSE ⏏ to close the disc tray, you have to press PLAY ► to start playback.

REMINDER: This DVD/VCR will play only certain discs. See page 7 for details.

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Display Panel 19

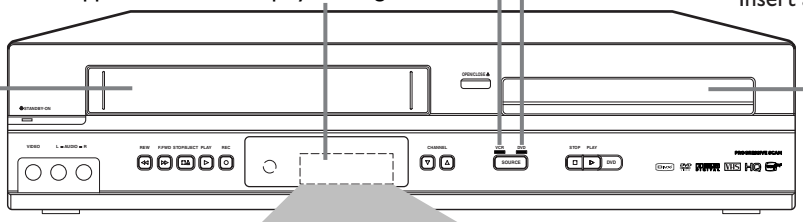
VCR light
This light appears when the DVD/VCR is in VCR mode. You can only watch videotapes or access VCR features and TV channels when VCR light is on. To make VCR light come on, press VCR on the remote control or SOURCE on the front of the DVD/VCR.

DVD light
This light appears when the DVD/VCR is in DVD mode. You can only watch DVDs when DVD light is on. To make DVD light come on, press SOURCE on the front of the DVD/VCR or DVD on the remote.

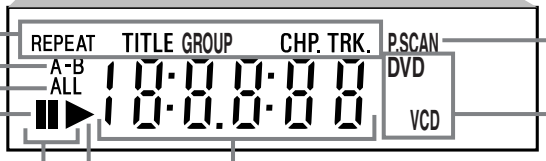
Cassette Compartment
Insert a video cassette here.

Display
Messages about current disc operations appear here. See Display Messages below.

Disc tray
Insert a disc here.



DVD Display Panel



Appears when a repeat function is active.

Appears when A-B Repeat is on.

Appears when ALL Repeat is on. (Video CD, CD, MP3, Windows Media™ Audio, JPEG and DivX®)

Appears when disc playback is paused.

Appears during Slow Motion Playback (DVD, Video CD, DivX®).

Appears during disc playback.

Displays the elapsed time of the title or track.
The number of a new title, chapter, or track is displayed for 3 seconds when a chapter or track is switched, or DISPLAY is pressed during playback.

Appears when Progressive Scan is active.

Displays the current disc type.
- DVD: DVD, DivX® on DVD
- VCD: Video CD
- CD: Audio CD, MP3, Windows Media™ Audio, JPEG, DivX® on CD

VCR Display Panel

Indicates VCR position.

Appears when a timer recording or an OTR has been set.

Indicates a tape is in the DVD/VCR.

Appears during recording; flashes when recording is paused.

Appears during playback when the Auto Repeat function is on.

Indicates current time is P.M. There is no A.M. indication.

Appears if tape playback is paused.

Appears during tape playback.

Indicates the elapsed playing time of a tape; also displays a channel number, tape speed, remaining time for an OTR or the current time.

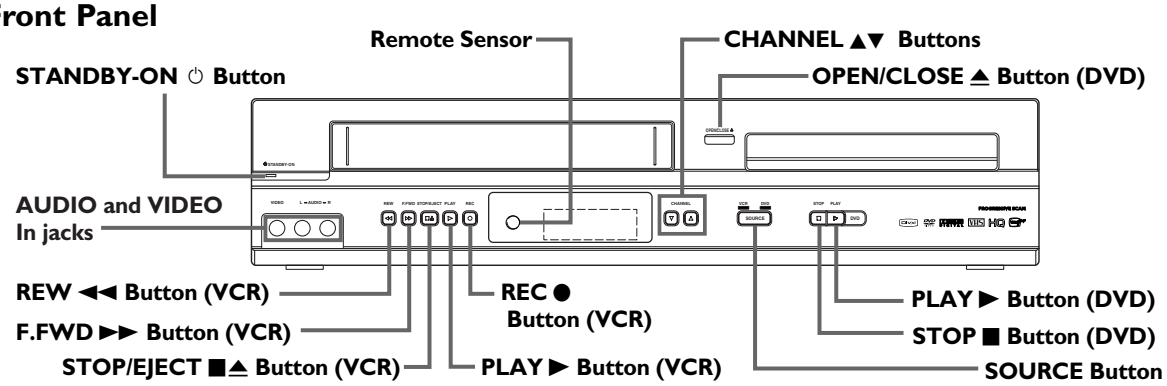
Display Messages

- - - - -	Appears after the disc tray closes if the tray is empty, if there is an error reading the disc, or if an unacceptable disc is installed.	CLOSE	Tray is closing.
		Load	Disc is loading.
OPEN	Tray is opening or is open.	Pbc	Appears when Playback Control is active (Video CD).

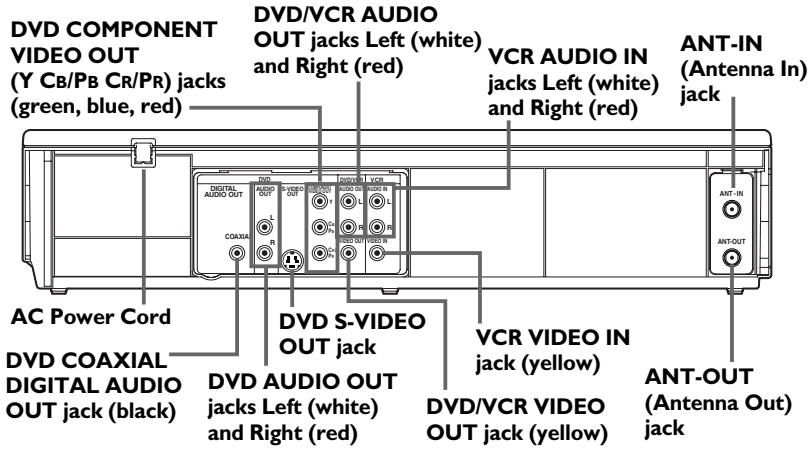
English

20 Front Panel, Rear Panel and Remote Control

Front Panel

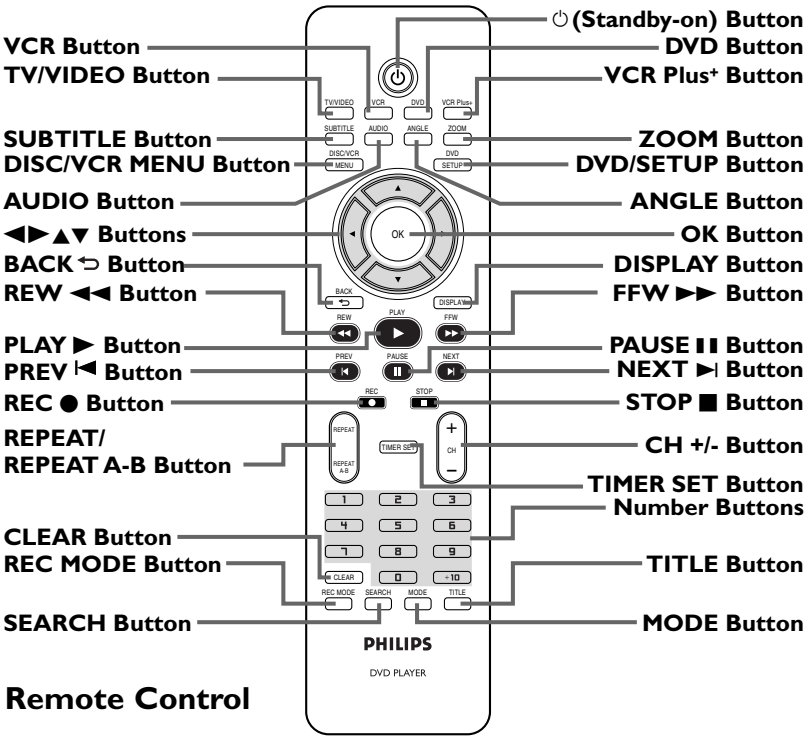


Rear Panel


DVD COMPONENT VIDEO OUT (Y CB/PB CR/PR) jacks (green, blue, red)
DVD/VCR AUDIO OUT jacks Left (white) and Right (red)
VCR AUDIO IN jacks Left (white) and Right (red)
ANT-IN (Antenna In) jack
AC Power Cord
DVD COAXIAL DIGITAL AUDIO OUT jack (black)
DVD AUDIO OUT jacks Left (white) and Right (red)
DVD S-VIDEO OUT jack
DVD/VCR VIDEO OUT jack (yellow)
VCR VIDEO IN jack (yellow)
ANT-OUT (Antenna Out) jack

Helpful Hint

- The DVD S-VIDEO OUT, DVD COMPONENT VIDEO OUT, DVD AUDIO OUT and DVD COAXIAL DIGITAL AUDIO OUT jacks are only useful in DVD mode. To have sound and picture in VCR mode, you must connect either the RF coaxial cable or the audio/video cables supplied. *Details are on pages 9 and 12.*



Remote Control

Helpful Hints

- For DVD player features, press DVD before pressing other buttons. To put the DVD/VCR in DVD mode, press DVD or SOURCE so DVD light appears on the front of the DVD/VCR.
- For VCR features, press VCR before pressing any other buttons. To put the DVD/VCR in VCR mode, press VCR or SOURCE so VCR light appears on the front of the DVD/VCR.
- In VCR mode, PREV ⏮ works as CH -, and NEXT ⏭ works as CH +.
- In DVD mode, CH - works as PREV ⏮, and CH + works as NEXT ⏭.

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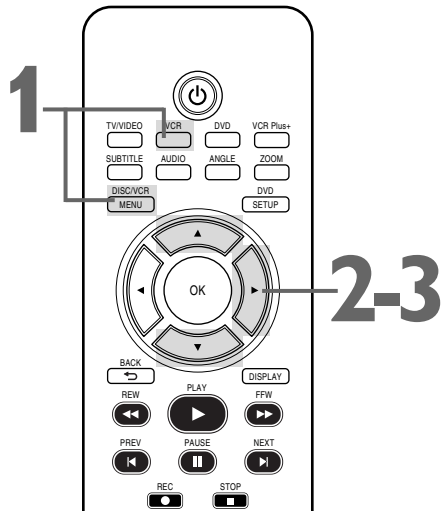
Although your DVD/VCR may automatically memorize the channels you receive when you turn it on for the first time, you can set up the channels again.



1 **Press VCR, then press DISC/VCR MENU** so MENU1 appears. If the clock has never been set, the CLOCK SET menu may appear when you press DISC/VCR MENU. If so, follow the instructions from step 3 on page 22.

```
- M E N U 1 -

►TIMER PROGRAMMING
 AUTO REPEAT          [OFF]
 CHANNEL SET UP
 CLOCK SET
 LANGUAGE SELECT
 AUDIO OUT
 TV STEREO            [ON]
 SAP
```

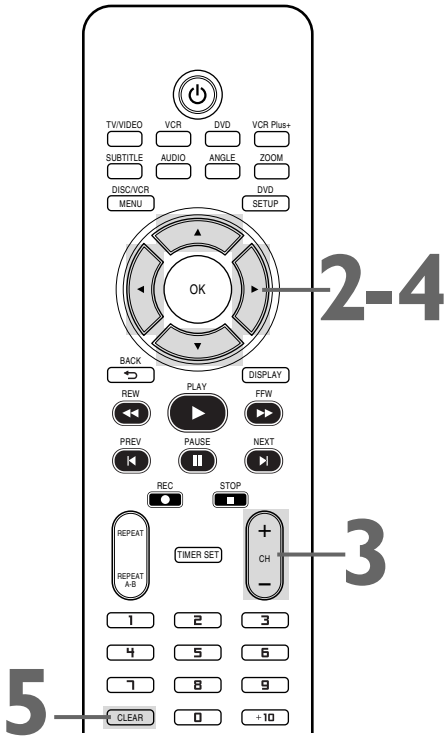
2 **Press ▲ or ▼ to select CHANNEL SET UP. Then, press ►.**

3 **Press ▲ or ▼ to select AUTO SET UP. Then press ►.**

4 Auto Channel Setup will start as AUTO SET UP flashes on the screen. When setup is complete, the lowest memorized channel will appear on the TV.

Adding/Deleting Channels

You may want to add or delete TV channels if your channel lineup changes or if you no longer watch some channels.



1 **Follow the steps 1-2 above.**

2 **Press ▲ or ▼ to select MANUAL SET UP. Then press ►.**

3 **Press ▲ or ▼ to select the channel number you want to add or delete.**
To scan through only the memorized channels, use CH + or CH -.

4 **Press ◄ or ► to switch ADD/DELETE.**

```
MANUAL SET UP
CHANNEL  30 (CATV)
   ADD
```

5 **After selecting your choice, press CLEAR to exit.**
Your selection is activated now.
To select any existing channels (including the ones deleted), use the Number Buttons. To flip through only the memorized channels, use CH + or CH -.

Helpful Hints

- You cannot program channels if you are using a Cable Box or Satellite Receiver.
- If you have an antenna, channels 2-69 will be possible. If you have Cable TV, channels 1-125 will be possible.
- To stop Channel Setup, press DISC/VCR MENU while AUTO SET UP is flashing.

English

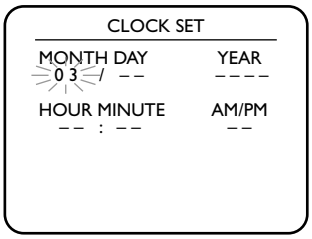
22 Clock (VCR)

Follow these steps to set the VCR clock. Make sure:

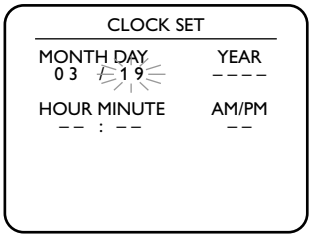
1 **Press VCR, then press DISC/VCR MENU** so MENU1 appears. If the clock has never been set, the CLOCK SET menu may appear when you press DISC/VCR MENU. If so, follow the instructions from step 3 on this page.

2 **Press ▲ or ▼ to select CLOCK SET. Then, press ►.**

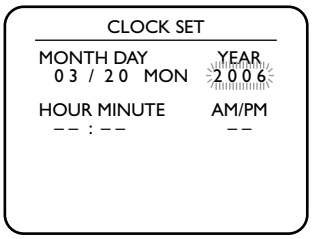
3 **While the MONTH space is flashing, press ▲ or ▼ until the month appears. Then, press ►.**



4 **While the DAY space is flashing, press ▲ or ▼ until the day appears. Then, press ►.**



5 **While the YEAR space is flashing, press ▲ or ▼ until the year appears. Then, press ►.** The day of the week will appear automatically.

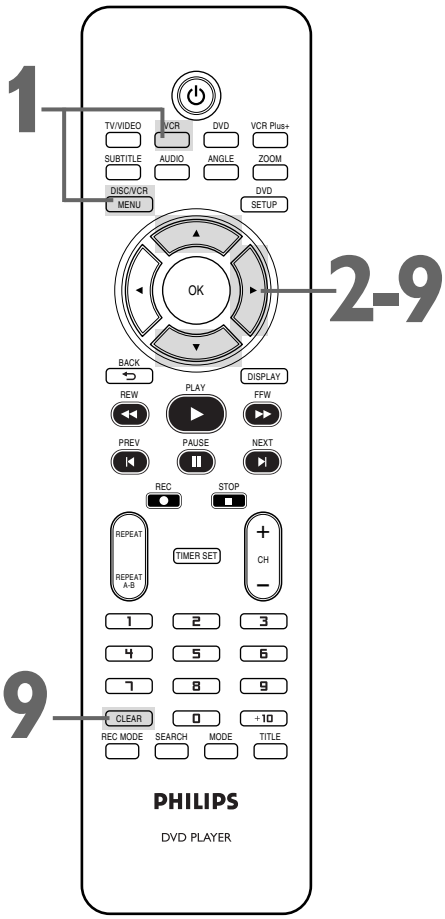


6 **While the HOUR space is flashing, press ▲ or ▼ until the hour appears. Then, press ►.**

7 **While the MINUTE space is flashing, press ▲ or ▼ until the minute appears. Then, press ►.**

8 **While the AM or PM space is flashing, press ▲ or ▼ to point to AM or PM.**
Your selection will flash on the screen in the AM/PM space.

9 **Press CLEAR or ► to start the clock.**

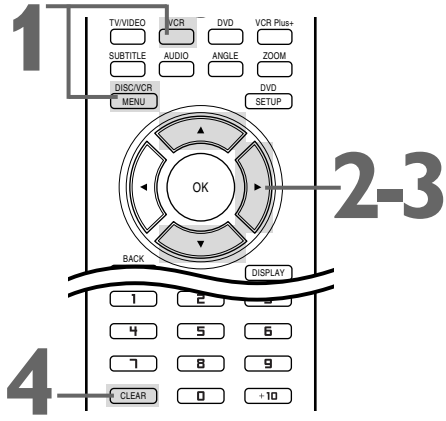


Helpful Hints

- If the clock has never been set, the CLOCK SET menu may appear when you press DISC/VCR MENU. If so, follow the instructions from step 3 above.
- Press DISPLAY repeatedly to show the time on the TV screen.
- Power failures of more than 30 seconds can erase the clock setting.
- To reset the clock, follow steps 1-2. Select the information you want to change using ◄ or ►. When the information is flashing, use ▲ or ▼ to enter the correct information. Press CLEAR to set the clock.

Language (VCR) 23

Follow the steps below to change the language of the VCR On-Screen Displays and menus.



1 **Press VCR, then press DISC/VCR MENU** so MENU1 appears.

```
- M E N U 1 -

►TIMER PROGRAMMING
 AUTO REPEAT          [OFF]
 CHANNEL SET UP
 CLOCK SET
 LANGUAGE SELECT
 AUDIO OUT
 TV STEREO            [ON]
 SAP
```

2 **Press ▲ or ▼ to choose LANGUAGE SELECT, then press ►.**

3 **Press ▲ or ▼ to choose ENGLISH, FRANCAIS (French) or ESPAÑOL (Spanish).**

```
LANGUAGE SELECT

►ENGLISH              [ON]
 FRANCAIS
 ESPAÑOL
```

4 **Press CLEAR to remove the menu.**

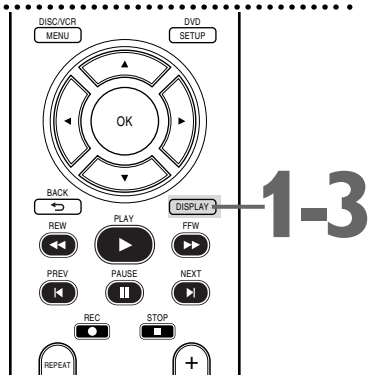
Helpful Hint

- If you select FRANCAIS (French), or ESPAÑOL (Spanish) and need English:

1) Press DISC/VCR MENU so MENU1 appears.
2) Press ▼ to choose SELECTION LANGUE or SELEC. IDIOMA, then press ►.
3) Press ▲ or ▼ to select ENGLISH.
4) Press CLEAR.

VCR Status Displays

You may access Status Displays by pressing DISPLAY. The displays may include the current time, channel and other information.



1 **Press DISPLAY.** The COUNT display will appear for 5 seconds. After 5 seconds, only the real-time tape counter will appear. This counter shows you the elapsed playing time of the tape (from the point at which the counter was set to 0). The counter also will appear on the display panel on the front of the DVD/VCR.

2 **Press DISPLAY again.** The CLOCK display will appear for 5 seconds. After 5 seconds, only the time will appear (the clock must be set). (If you are watching TV, the channel number and the availability of stereo or second audio will also appear.) The time also will appear on the display panel on the front of the DVD/VCR.

```
STOP

SLP          0:12:34        HIFI
```

```
STOP                    5:40 PM
                        CH 02
                        STEREO
                        SAP

SLP
```

3 **Press DISPLAY again to remove all the displays.**

Helpful Hints

- If the channel you select has no broadcast, the screen will be solid blue.
- You cannot access a Status Display when viewing a still picture or during forward and reverse searching.
- Channel numbers appear on the screen for a few seconds each time you change channels.

English

24 Videotape Recording

Read and follow the steps below to record a television program onto a videotape.

- Before you begin, make sure the DVD/VCR is in VCR mode. Press VCR so VCR light appears on the front of the DVD/VCR.

1 **Turn on the TV and set it to channel 3 or 4 or the Video In channel.** If you connected the DVD/VCR to the TV using the supplied audio and video cables, select your TV's Video In channel. *Details are on page 12.*
If you connected the DVD/VCR to the TV using the supplied RF coaxial cable, choose channel 3 (or 4) at the TV. *Details are on pages 9-11.*

2 **Insert a tape with its record tab intact into the cassette compartment of the DVD/VCR.** If tape playback begins, press STOP ■.

3 **Press REC MODE repeatedly until the desired tape speed (SP or SLP) appears briefly on the screen.** *Details about tape speed are on page 67.*

4 **Press CH + or CH - or the Number buttons to select the TV channel to record.**

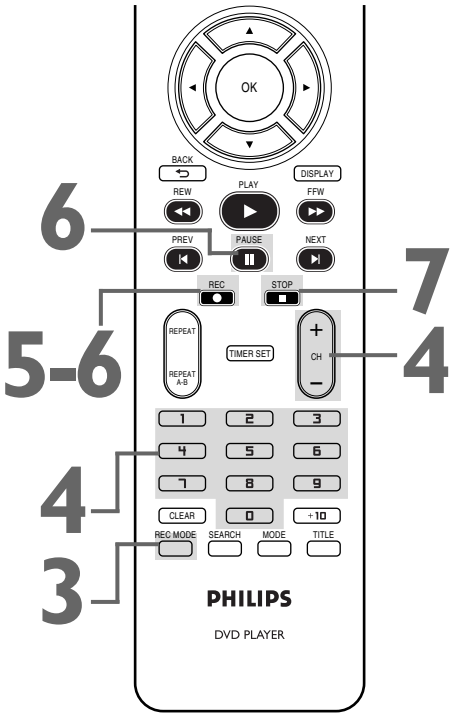
5 **Press REC ● to start recording.** "REC" will appear on the DVD/VCR's display panel.

6 **To pause the recording, press PAUSE ❚❚ once.** "REC" will flash. **To resume recording, press REC ● or press PAUSE ❚❚ again.** "REC" will reappear.

7 **To stop recording, press STOP ■.**

1 Turn on the TV.

2 Insert a tape in the DVD/VCR.

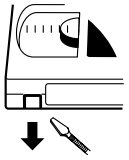


Recording Prevention

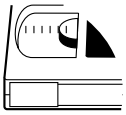
Video cassettes have record tabs to ensure that recordings are not accidentally erased.

1 **To prevent recording, break off the tab with a screwdriver.**

2 **To allow recording, cover the hole with clear tape.**



Remove the tab to prevent recording.



Cover the hole to allow recording.

Helpful Hints

- Other recording options are on pages 25-30.
- The VCR will record in a preset volume.
- Pause will switch to Stop after 5 minutes to protect the VCR and the tape from damage. When a recording is paused, review the pause time remaining with the ■ marks on the screen. Each ■ mark equals 1 minute remaining. During the last minute of paused recording, the ■ mark will flash.
- If any menu is on the TV screen, REC ● on the remote does not function. Press CLEAR to remove the menu. Then, press REC ●. Or, use REC ● on the front of the DVD/VCR.

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Recording One Channel/Watching Another 25

1 **Press VCR. Insert a recordable tape, then press REC ● to record the current TV channel.** *Details are on page 24.*

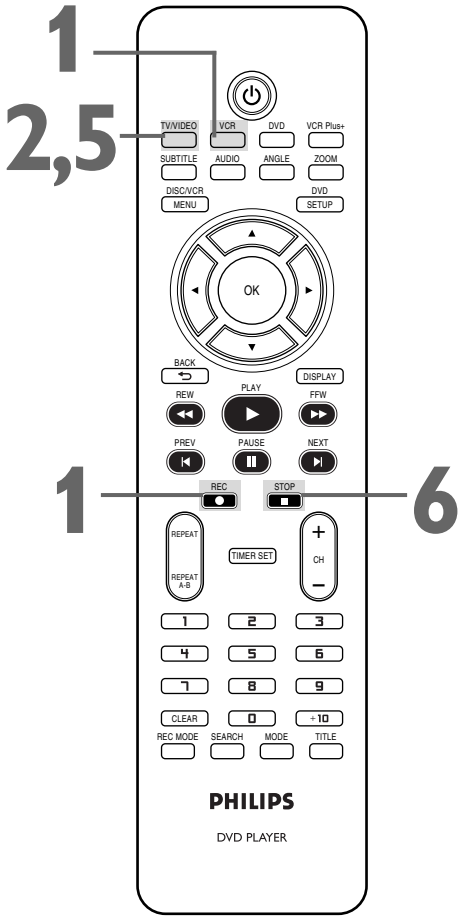
2 **Press TV/VIDEO once to put the DVD/VCR in TV position.** The VCR light will disappear from the DVD/VCR's display panel.

3 **Use the TV remote control to select the channel you want to watch at the TV.**

4 **To return to the channel being recorded, use the TV remote control to return to channel 03 or 04 at the TV.** *Details are on page 9.* Or, if you connected the DVD/VCR to the TV using audio and video cables, return to the TV's correct Video In channel. *Details are on page 12.*

5 **Press TV/VIDEO on the DVD/VCR remote control to put the DVD/VCR in VCR position.** (The VCR light will appear in the DVD/VCR's display panel again.) The channel being recorded will appear on the TV screen.

6 **Press STOP ■ to stop the recording.**



3 Select the channel you want to watch at the TV.

4 Reselect channel 03, 04 or Video In at the TV.

Helpful Hint

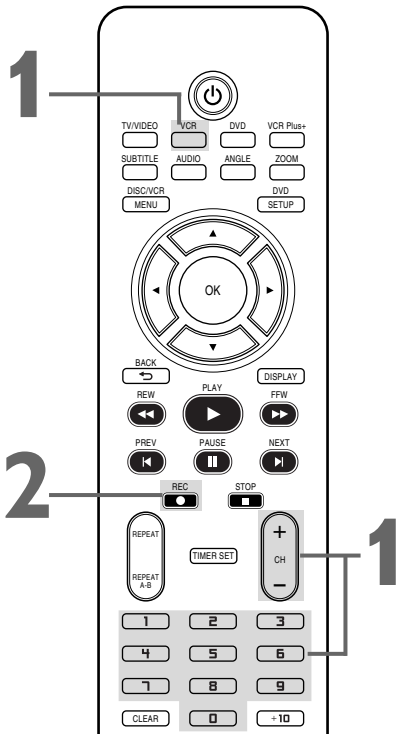
- If you use a Cable Box or Satellite Receiver, you may not be able to watch one channel while recording another. See pages 10-11 for details.

English

26 One-Touch Recording

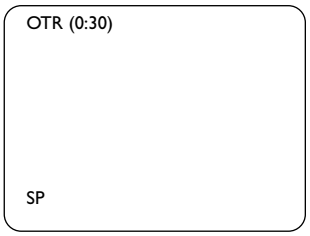
One-Touch Recording (OTR) lets you set a timed recording 30 minutes to 8 hours long of the current TV channel. Before you begin:

- Place the DVD/VCR in VCR mode. Press VCR so VCR light appears on the front of the DVD/VCR.
- Select a recording speed (SP, SLP) by pressing REC MODE.
- Put a videotape in the cassette compartment. Make sure the tape's record tab is intact and the tape is long enough to record the program(s).



1 **Press VCR, then press CH + or CH - or the Number buttons to select the channel you want to record.**

2 **Press REC ● repeatedly until the desired recording length (30 minutes to 8 hours) appears on the TV screen.** Recording will begin. "REC" and "◷" will appear on the DVD/VCR's display panel.



When an OTR ends

The DVD/VCR will turn off and "◷" on the DVD/VCR's display panel will flash indicating that the recording is complete, then goes into the timer standby mode again. (It may switch to DVD mode automatically.) At this point, you cannot use the VCR unless you release the DVD/VCR from the timer standby mode.

To release the DVD/VCR from timer standby mode

- If the DVD component is active and no more timer recordings are on standby, you can cancel the timer standby mode by pressing TIMER SET or VCR on the remote control or by pressing SOURCE or STOP/EJECT ■▲ on the front panel.
- If the DVD component is not active, or the "◷" is not flashing but lit indicating there are more timer recordings on standby, you can cancel the timer standby mode only by pressing TIMER SET on the remote control or by pressing STOP/EJECT ■▲ on the front panel.
- After releasing the DVD/VCR from timer standby mode, you can use it as usual.

Stopping an OTR

To stop an OTR before recording is finished, press STOP ■ on the remote control or STOP/EJECT ■▲ on the front of the DVD/VCR. To cancel the OTR but continue recording, press REC ● repeatedly until REC appears in the upper left corner of the TV screen, and "◷" disappears.

Helpful Hints

- The remaining recording time will appear on the display panel during an OTR. Press DISPLAY to see it on the TV screen.
- To change the recording length while an OTR is in progress, press REC ● repeatedly.
- You cannot pause an OTR.
- If the preset time for a timer recording comes up during an OTR, the OTR has priority. The timer recording will not take place.
- If the end of the tape is reached during an OTR, the VCR will stop recording, eject the tape, and switch to DVD mode or turn off.
- If one or more Timer recordings are on standby when one OTR ends, the DVD/VCR will turn off automatically and "◷" will appear on the DVD/VCR's display panel indicating that it is now ready for another timer recording.

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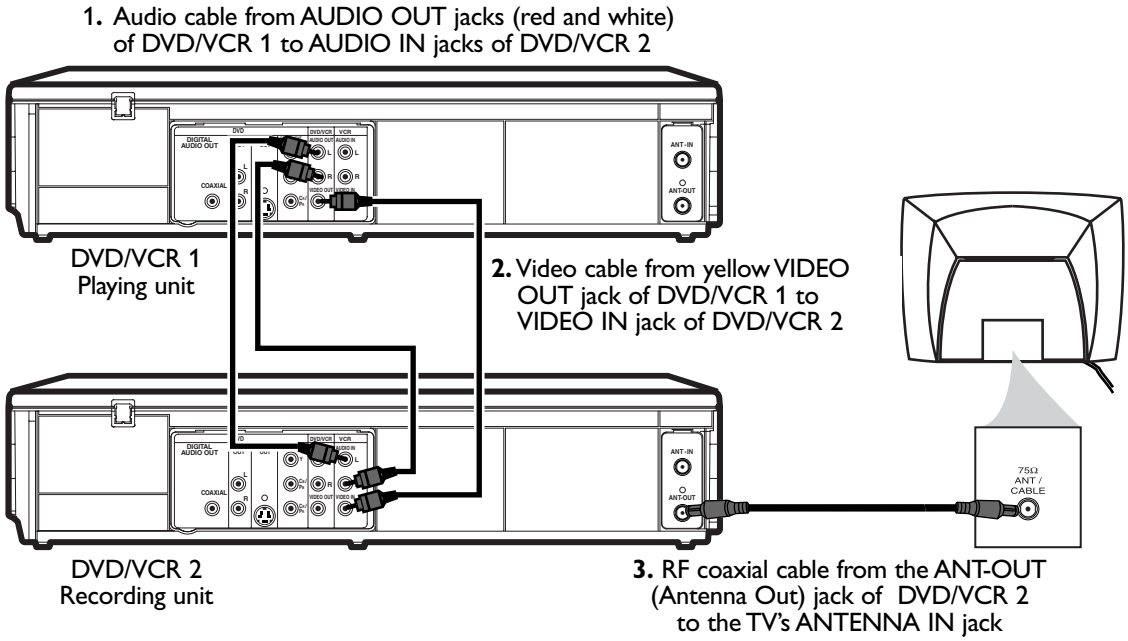
Rerecording (Tape Duplication) 27

These instructions show you how to copy videotapes. The illustration uses two DVD/VCRs. Other VCRs or Camcorders may operate differently.


1. Audio cable from AUDIO OUT jacks (red and white) of DVD/VCR 1 to AUDIO IN jacks of DVD/VCR 2
DVD/VCR 1
Playing unit
2. Video cable from yellow VIDEO OUT jack of DVD/VCR 1 to VIDEO IN jack of DVD/VCR 2
DVD/VCR 2
Recording unit
3. RF coaxial cable from the ANT-OUT (Antenna Out) jack of DVD/VCR 2 to the TV's ANTENNA IN jack
75Ω ANT / CABLE

1 **Make the connections shown above.**

2 DVD/VCR 1 will play your tape. **Put a prerecorded tape into the cassette compartment of DVD/VCR 1.** Press VCR to put the unit in VCR mode if necessary.

3 DVD/VCR 2 will record your tape. **Insert a blank tape in the cassette compartment of DVD/VCR 2.** Press VCR to put the unit in VCR mode if necessary.

4 **Turn on the TV and set it to channel 03 or 04** (the RF output channel of DVD/VCR 2). To determine the DVD/VCR's output channel, see step 4 on page 9.

5 **Point the remote control at DVD/VCR 2. Press Number buttons 0, 0, 1 or 0, 0, 2.** *(See Helpful Hints to the right.)*

6 **Press REC MODE to select SP or SLP at DVD/VCR 2.**

7 **Press PLAY ► (VCR) on the front of DVD/VCR 1 and REC ● on the front of DVD/VCR 2 at the same time.**
To stop recording, press STOP/EJECT ■▲ on DVD/VCR 2, then press STOP/EJECT ■▲ on DVD/VCR 1.

Helpful Hints

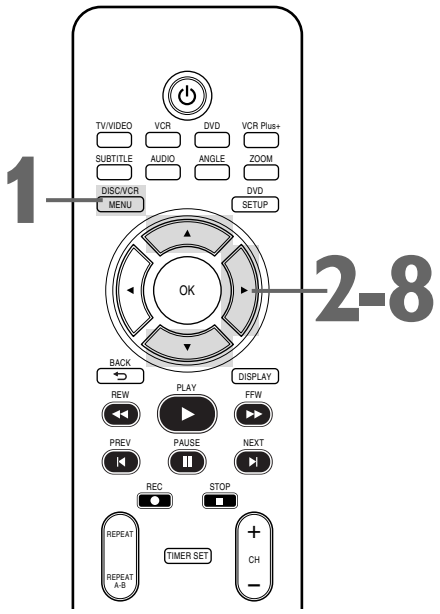
- If you use the AUDIO and VIDEO IN jacks on the back of DVD/VCR 2, press Number buttons 0, 0, 1 at step 5. L1 will appear on the TV screen.
- If you use the AUDIO and VIDEO IN jacks on the front of DVD/VCR 2, press Number buttons 0, 0, 2 at step 5. L2 will appear on the TV screen.
- Unauthorized recording of copyrighted television programs, video tapes or other materials may infringe on the rights of copyright owners and violate copyright laws.
- If a program has copyright protection, it may not be recorded clearly.

English

28 Timer Recording

Follow the steps below to program the VCR of the DVD/VCR to record TV programs while you're away from home. Before you begin:

- Set up the TV channels at the DVD/VCR. *Details are on page 21.*
- Set the clock. *Details are on page 22.*
- Put a tape in the cassette compartment of the DVD/VCR. Make sure the tape's record tab is intact and the tape is long enough to record the program(s).
- Press VCR so VCR light appears on the front of the DVD/VCR.



1 **Press DISC/VCR MENU so MENU1 appears.**

2 **Press ▲ or ▼ to select TIMER PROGRAMMING. Then, press ►.** Program numbers that do not have a timer recording stored will flash.

```
TIMER PROGRAMMING
PROG.  12345678
DATE
START TIME
END TIME
CHANNEL
REC SPEED
```

3 **Press ▲ or ▼ to select an empty program. Then, press ►.**

```
PROGRAM NUMBER  1
DATE            --/--
START TIME      --:-- --
END   TIME      --:-- --
CHANNEL         --
REC SPEED       --
```

4 **Press ▲ or ▼ to select ONCE, DAILY or WEEKLY. Then, press ►.**

- ONCE - The VCR will record a TV program on any day you choose, up to 12 months away.
- DAILY - The VCR will record a TV program at the same time on the same channel every day, Monday through Friday.
- WEEKLY - The VCR will record a TV program at the same time on the same channel every week, for example, every Monday.

5 **To enter the recording date, press ▲ or ▼ until the month appears. Then, press ►. Next, press ▲ or ▼ until the day appears. Then, press ►.** The day of the week will appear. You cannot record more than one year in advance.

6 To enter the recording's start time, **press ▲ or ▼ until the hour appears. Press ►. Press ▲ or ▼ until the minute appears. Press ►. Finally, press ▲ or ▼ to point to AM or PM.** AM or PM will flash beside the start time. **Press ►.**

7 **Repeat the procedure in step 6 to set the recording's end time.**

8 **Press ▲ or ▼ until the channel number appears. Then, press ►.**

- If you are using a standard antenna/Cable TV hookup (as shown on page 9), select the channel of the TV program you want to record.

Helpful Hints

- You cannot access the TIMER PROGRAMMING menu at step 2 if the clock is not set. The CLOCK SET menu will appear. Follow the steps on page 22 to set the clock.
- Only programs that will air Monday-Friday can be recorded on a DAILY basis. If you select DAILY at step 4, then enter a Saturday or Sunday DATE at step 5, the correct program will not be recorded. The VCR will alter the recording date and record a different program than the one you intended.
- If you are recording from other equipment, set CHANNEL to L1 or L2 at step 8. If you connected the other equipment to the AUDIO and VIDEO In jacks on the front of the DVD/VCR, choose L2. If you connected the equipment to the AUDIO IN and VIDEO IN jacks on the back of the DVD/VCR, choose L1.
- Enter the information while the space is flashing.

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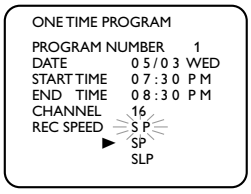
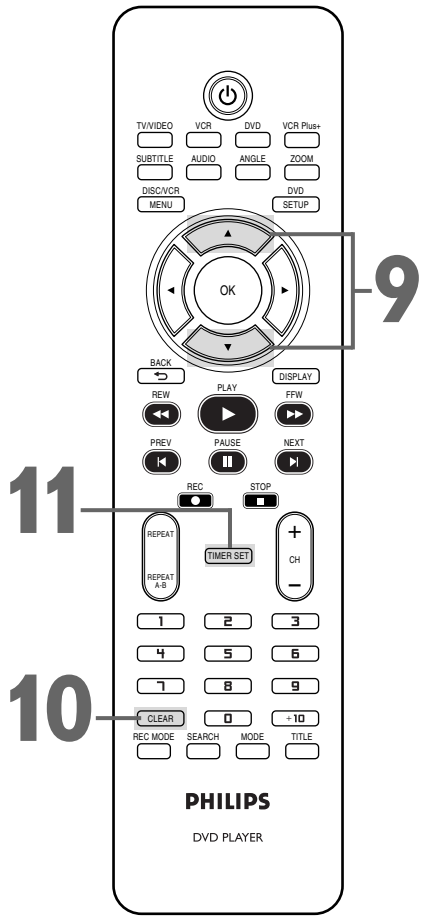
- If you are recording from other equipment, select L1 or L2. To determine L1 or L2, refer to the Helpful Hints on page 28.
- If you are using a Cable Box/Satellite Receiver, select the Cable Box/Satellite Receiver output channel (03 or 04). Then, at the Cable Box/Satellite Receiver, select the channel you want to record. Leave the Cable Box/Satellite Receiver on for the timer recording.
  Details are on page 10.

9 **Press ▲ or ▼ to select a recording tape speed.** The arrow will appear beside your choice. The selected speed will flash beside REC SPEED. *Details about tape speed are on page 67.*
You must select the recording speed to complete the timer programming.



10 **Press CLEAR to remove the menu.**

11 **Press TIMER SET.** In some cases, the DVD/VCR will switch to DVD mode instead. You may use the DVD player during a timer recording.
If you want to use the VCR until time for the recording, don't press TIMER SET until a few minutes before the recording should start. Or, press TIMER SET only when you know you won't be using the VCR anymore (until after the recording). When "⏲" is lit (not flashing), you cannot put the DVD/VCR in VCR mode by pressing VCR or SOURCE. You must first press TIMER SET on the remote control or STOP/EJECT ■⏏ on the front panel to cancel the timer recording temporarily. Then, you can use the VCR features again.



When a timer recording ends

The DVD/VCR will turn off and "⏲" on the DVD/VCR's display panel will flash indicating that the recording is complete, then goes into the timer standby mode again. (It may switch to DVD mode automatically.) At this point, you cannot use the VCR unless you release the DVD/VCR from the timer standby mode.

To release the DVD/VCR from timer standby mode

- If the DVD component is active and no more timer recordings are on standby, you can cancel the timer standby mode by pressing TIMER SET or VCR on the remote control or by pressing SOURCE or STOP/EJECT ■⏏ on the front panel.
- If the DVD component is not active, or the "⏲" is not flashing but lit indicating there are more timer recordings on standby, you can cancel the timer standby mode only by pressing TIMER SET on the remote control or by pressing STOP/EJECT ■⏏ on the front panel.
- After releasing the DVD/VCR from timer standby mode, you can use it as usual.

Cancelling a Timer Recording before the Recording Starts

1 **Press VCR, then press DISC/VCR MENU** so MENU1 appears.

2 **Press ▲ or ▼ to select TIMER PROGRAMMING, then press ►.**

3 **Press ▲ or ▼ to find the program you want to cancel.**

4 **While the program number is flashing, press ◄ to clear all the information for that program.**

5 **Press CLEAR to remove the menu.**

Helpful Hints

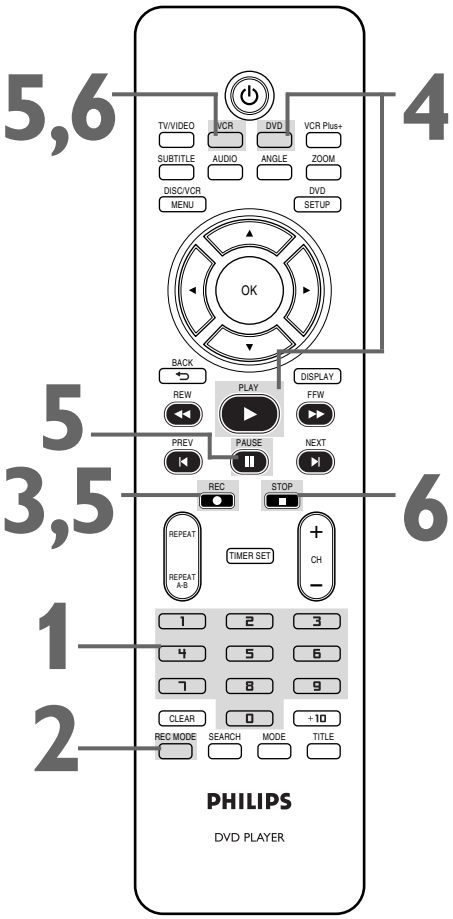
- To stop a started timer recording, press STOP/EJECT ■⏏ on the front of the DVD/VCR. (You cannot stop a started timer recording with STOP ■ on the remote.) ***More Helpful Hints are on page 69.***
- To change incorrect information, press ◄ or ► to choose the item you want to change. Press ▲ or ▼ to adjust the information.
- If there is no tape in the VCR when you press TIMER SET, "⏲" will flash. Insert a tape.
- If one or more Timer recordings are on standby when one timer recording ends, the DVD/VCR will turn off automatically and "⏲" will appear on the DVD/VCR's display panel indicating that it is now ready for another timer recording.

English

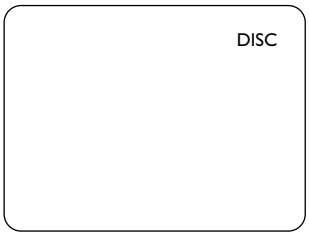
30 DVD to Videotape Duplication

Follow the steps below to copy a DVD to a videotape. **This will be possible only if the DVD is not copy protected.**
Before you begin:

- Put a videotape in the cassette compartment. Make sure the tape's record tab is intact and the tape is long enough to record the DVD.
- Put the DVD you want to copy in the disc tray.
- Press VCR so VCR light appears on the front of the DVD/VCR.
- Turn on the TV and set it to channel 3, 4 or its Video Input.



1 Point the remote control at the DVD/VCR. **Press Number buttons 0, 0, 3.** "DISC" will appear on the TV screen.



2 **Press REC MODE repeatedly until the desired tape speed (SP or SLP) appears briefly on the screen.**
Details about tape speed are on page 67.

3 **Press REC ● to start recording.** "REC" will appear on the display panel.

4 **Press DVD. Press PLAY ► to play the disc.**

5 **To pause the recording, press VCR, then press PAUSE ❚❚ once.** "REC" will flash. **To resume recording, press REC ● or press PAUSE ❚❚ again.** "REC" will reappear.

6 **To stop recording, press VCR, then press STOP ■.**

Helpful Hints

- A timer recording is not possible during DVD to videotape duplication.
- You cannot copy a DVD to a videotape if you are using Progressive Scan. *Details are on page 14.*

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Setting Up the VCR Plus+® Programming System Manually 31

To have the VCR Plus+ programming system work properly, you must assign correct User Channels to the Guide Channels given to each TV/CATV stations. To do so, follow the steps below.

1 First, fill in the boxes on this page.
Since the channel numbers of the stations you receive may not be the same as the station numbers, and since channel numbers differ from area to area, you must program the VCR with your local channel information. To fill in the boxes, you will need 1) a cable channel list, if applicable (you can request one from your cable company), and 2) a chart that lists VCR Plus+ channel numbers (Guide channels), which you can find in your TV guide or the TV listings of your local newspaper.
NOTE: If you are using a Cable Box/DBS, the User channel must be 3 or 4 (the Cable Box/DBS output channel) for every Guide channel.

Channels		
Station Call Letters	GUIDE CH.	USER CH.

English

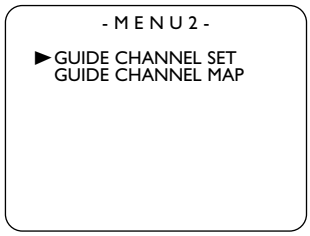
32 Setting Up the VCR Plus+® Programming System Manually (cont'd)

Instructions continued from the previous page.

Examine the lists on page 31.

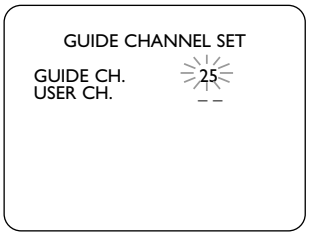
2 Now, compare the channel numbers you have written in the GUIDE CH. and USER CH. columns. For stations whose Guide and User channels do not match, you must tell the VCR the Guide and User channels by following steps 3-7.

3 **Press VCR, then press DISC/VCR MENU repeatedly until MENU2 appears.**



4 **Press ▲ or ▼ to select GUIDE CHANNEL SET, then press ►.**

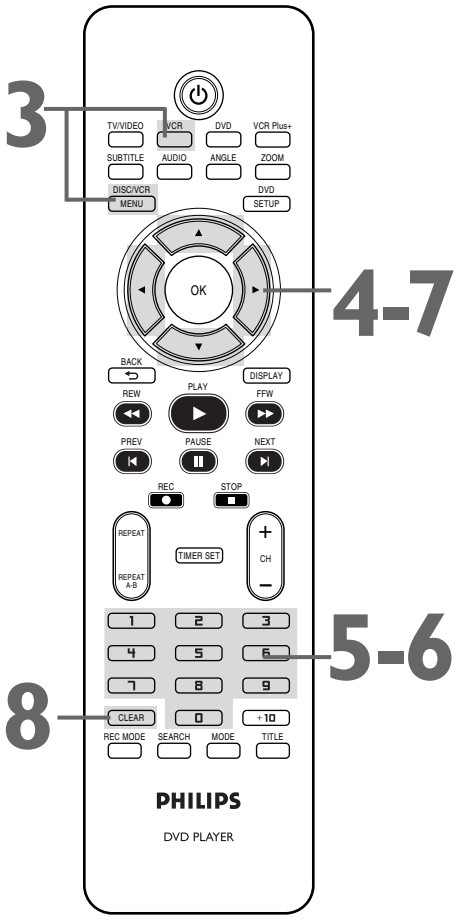
5 **Press the Number buttons, ▲, or ▼ until the Guide channel number you want appears. Then, press ►.**



6 **Press the Number buttons, ▲, or ▼ until the User channel number you want appears.** If you have an antenna, choose channels 2-69. If you have Cable TV, choose channels 1-125. If you want to select line input 1 or 2 (L1 or L2), press 0, 0, 1 or 0, 0, 2 on the remote control.
- Press ◄ to go back one step from the current step.

7 **Press ► to memorize the Guide and User channels you entered.** To set more Guide and User channels, repeat steps 5-7.

8 **Press CLEAR to remove the menu.**



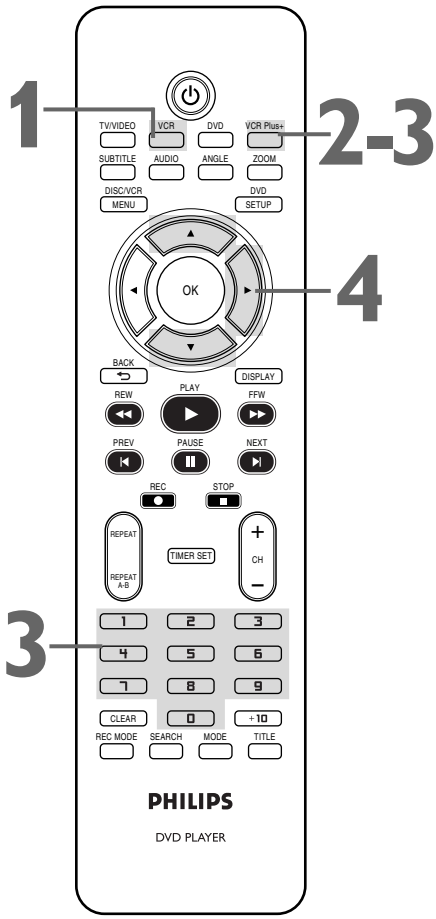
Helpful Hints

- To check a User channel, press DISC/VCR MENU until MENU2 appears. Press ▲ or ▼ to select GUIDE CHANNEL MAP, then press ►. If the channel is not on the screen, press ► until you reach the correct page.
- To erase a User channel, press ◄. A pair of numbers will flash. Press ▲ or ▼ until the numbers flash. Press ◄ to delete the User channel. Press CLEAR to remove the menu.
- To correct a Guide channel, repeat steps 3-5 on this page. Then, press ▲, ▼, or the Number buttons to enter the correct number. Press ►, then press CLEAR to remove the menu.

Timer Recording with the VCR Plus+ Programming System 33

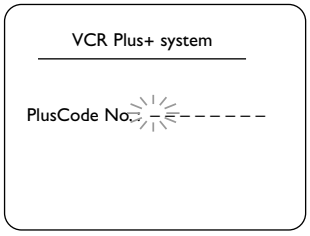
This DVD/VCR is equipped with the VCR Plus+ programming system.
Follow these steps to set a timer recording with the PlusCode programming numbers in your TV guide.
Before you begin:

- Set up the channels at the VCR (page 21).
- Set up the VCR Plus+ and Cable/TV channel numbers (pages 31-32).
- Set the clock (page 22).
- Put a tape in the VCR.

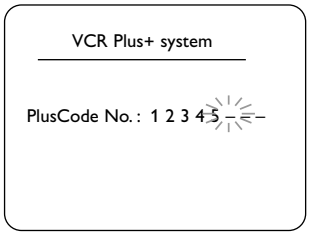


1 **Press VCR.**

2 **Press VCR Plus+.**

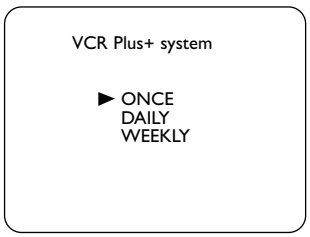


3 **Press the Number buttons to enter the PlusCode programming number of the program you wish to record.**
Then, press VCR Plus+.



4 **Press ▲ or ▼ to select a ONCE, DAILY, or WEEKLY recording. Then, press ►.**

- **ONCE:** The VCR will record a TV program on any day you choose, up to 12 months away.
- **DAILY:** The VCR will record a program every day from Monday to Friday – starting at the same time and recording for the same length of time.
- **WEEKLY:** The VCR will record a program on the same day, at the same time, and for the same length of time every week.



Instructions continue on the next page.

Helpful Hints

- The number you entered may flash on the screen after step 3 if you enter an incorrect PlusCode programming number (for example, one that is too short). The previous screen will appear. Enter the correct PlusCode programming number.
- If the number you entered flashes on the screen after step 3, the timer recording you just programmed and another timer recording overlap. The current timer recording will not occur.
- You may use the VCR Plus+ Programming System to record programs on Cable TV channels up to channel 125.
- If the power fails for more than 30 seconds, programmed timer recordings will be erased.

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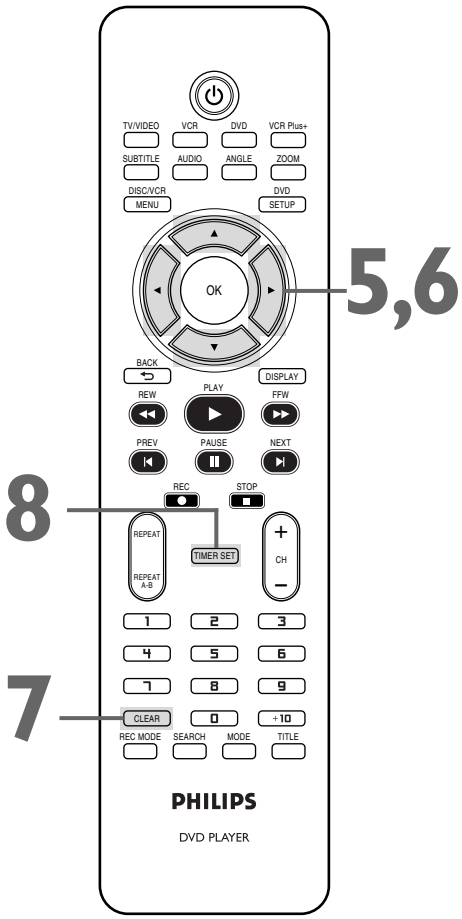
34 Timer Recording with the VCR Plus+ Programming System (cont'd)

Instructions continued from the previous page.



5 **Press ▲ or ▼ until your desired channel number appears. Then, press ►.**

- If you are using a standard antenna/Cable TV hookup (as shown on page 9), select the channel of the TV program you want to record.
- If you are recording from other equipment, select L1 or L2. To determine L1 or L2, refer to the Helpful Hints on page 28.
- If you are using a Cable Box/Satellite Receiver, select the Cable Box/Satellite Receiver output channel (03 or 04). Then, at the Cable Box/Satellite Receiver, select the channel you want to record. Leave the Cable Box/Satellite Receiver on for the timer recording.
  Details are on page 10.
- The channel set here will be memorized as the User Channel for the station you selected at the Cable Box/Satellite Receiver, and saved in the GUIDE CHANNEL MAP automatically.

```
ONE TIME PROGRAM

PROGRAM NUMBER     1
DATE          05/07  SUN
START  TIME   07:30   PM
END    TIME   08:30   PM
CHANNEL     ►16
REC SPEED     SP
              SP
              SLP
```

6 **Press ▲ or ▼ until your desired tape speed appears. (Example: SP)** There are cases in which the program information does not match your area. If the incorrect information appears, select the number you want to change using ◄. Then, enter the correct numbers using ▲ or ▼.

```
ONE TIME PROGRAM

PROGRAM NUMBER     1
DATE          05/07  SUN
START  TIME   07:30   PM
END    TIME   08:30   PM
CHANNEL       16
REC SPEED   ►SP
              SP
              SLP
```

7 **Press CLEAR.**

8 **Press TIMER SET.** The DVD/VCR will turn off and "⏲" will appear on the front of the DVD/VCR. In some cases, the DVD/VCR will switch to DVD mode instead. You may use the DVD Player during a timer recording.
If you want to use the VCR until time for the recording, don't press TIMER SET until a few minutes before the recording should start. Or, press TIMER SET only when you know you won't be using the VCR anymore (until after the recording). When "⏲" is on, you cannot put the DVD/VCR in VCR mode by pressing VCR or SOURCE. You must first press TIMER SET to cancel the timer recording temporarily. Then, you can use the VCR features again.

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Timer Recording with the VCR Plus+ Programming System (cont'd) 35

If you want to record programs via cable box/DBS using the VCR Plus+ Programming System, you must

- use the connection illustrated on page 9.
- assign 03 or 04 as the User Channel for all the Guide Channels.
- set the Cable Box/DBS to the channel you want to record, and leave the Cable Box/DBS on for the timer recording.

Press TIMER SET for the recording. Insert a tape in the VCR. Leave the Cable Box/DBS on (if applicable).

English

36 Repeat Playback

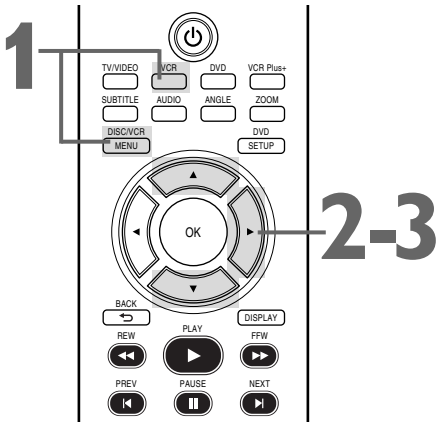
Follow the steps below to play a videotape repeatedly.

1 **Press VCR, then press DISC/VCR MENU** so MENU1 appears.

2 **Press ▲ or ▼ to select AUTO REPEAT.**

3 **Press ► so ON appears next to AUTO REPEAT.**
Tape playback will begin immediately. AUTO REPEAT will appear on the TV screen briefly. (If you are fast forwarding or rewinding the tape, press CLEAR to remove the menu, then press PLAY ► to begin tape playback.) The tape will play to the end, rewind, then play again. (TV programming will appear on the screen while the tape is rewinding.)

```
- M E N U 1 -

  TIMER PROGRAMMING
► AUTO REPEAT        [ON]
  CHANNEL SET UP
  CLOCK SET
  LANGUAGE SELECT
  AUDIO OUT
  TV STEREO          [ON]
  SAP
```



Helpful Hint

- To cancel Auto Repeat, follow steps 1-2. At step 3, press ► so OFF appears beside AUTO REPEAT. Press CLEAR.

Tape Counter

Follow the steps below to reset the VCR's real-time tape counter to 0 at a tape location you want to refer to later.

1 **Press VCR, then play, fast forward or rewind a tape to the location that you would like to refer to later. Press STOP ■ to stop the tape.**

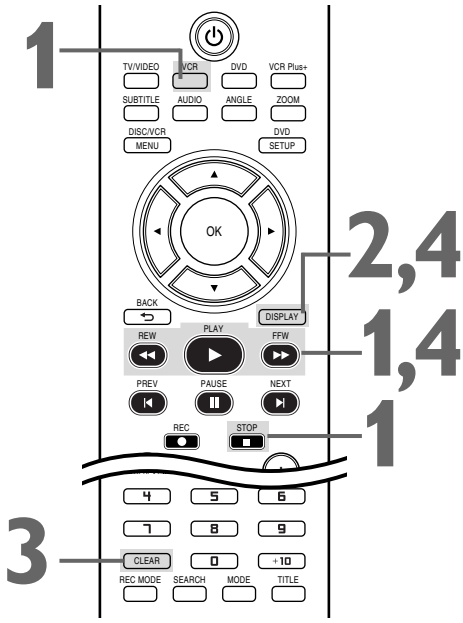
2 **Press DISPLAY to see the Status Display.**

```
STOP


SLP        1 : 23 : 45   HIFI
```

3 **While the counter is on the screen, press CLEAR to reset the counter to 0.**

```
STOP


SLP        0 : 00 : 00   HIFI
```

4 **When you later want to return to this point on the tape, press DISPLAY so you can see the counter (while tape playback is stopped). Press REW ◄◄ or FFW ►►.**
As the tape rewinds or forwards, watch the counter. When it reaches 0, **press PLAY ► to play the tape.**



Helpful Hints

- You may only set the counter to 0 at one location at a time. Setting the counter to zero at a second location will erase the previous 0 setting.
- If you remove the tape, the counter will reset to 0 at the point at which you last stopped playback whenever you reinsert the tape.

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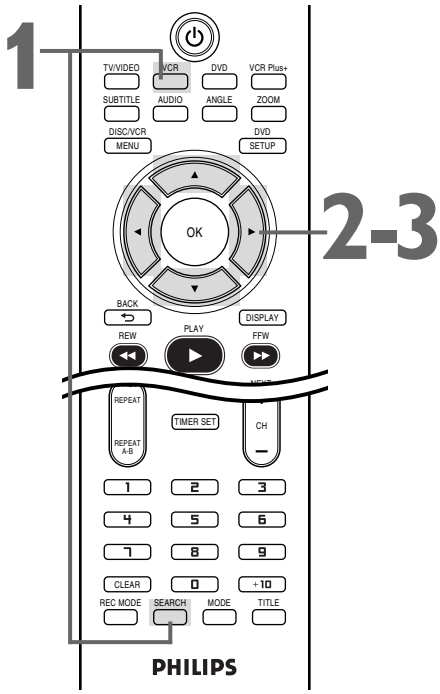
Time Search

Follow the steps below to search forward or backward on a tape a specific length of time. There must be a tape in the cassette compartment.



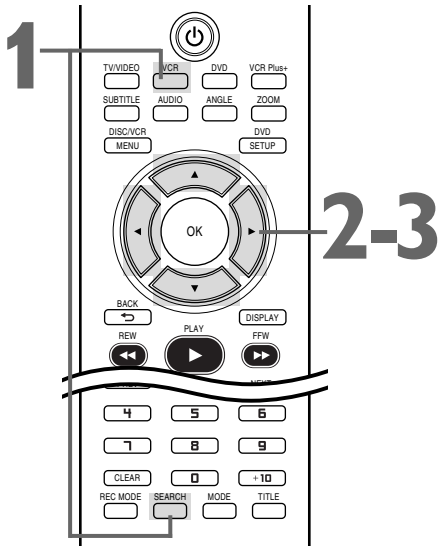
1 **Press VCR, then press SEARCH repeatedly until the TIME SEARCH screen appears.**

2 **Within 30 seconds, press ▲ or ▼ until your desired length of time appears.** Or, press and hold ▲ or ▼ until you reach the desired length of time.
You can set a Time Search for up to 9 hours and 59 minutes (9:59).

3 **Within 30 seconds, press ◄** (for a reverse search) **or ►** (for a forward search). The VCR begins rewinding or fast forwarding the tape. When the tape finishes rewinding or fast forwarding the time you specified, playback will begin.
The time will count down beneath TIME SEARCH during the search.
If the end of the tape is reached during the search, the search will stop and the tape may rewind. *Details are on page 38.*

Index Search

An Index Mark is made automatically at the beginning of each recording. Essentially, an Index Mark is a "bookmark." Find the start of a recording by following these steps.



1 **Press VCR, then press SEARCH repeatedly until the INDEX SEARCH screen appears.**

2 **Within 30 seconds, press ▲ or ▼** until the number of programs you want to skip appears beneath INDEX SEARCH. Include the current program in your number.

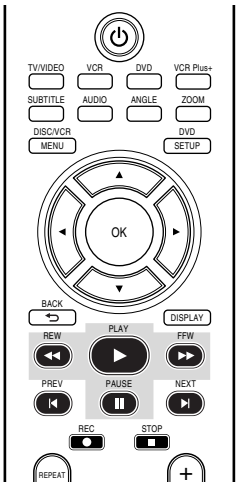
3 **Within 30 seconds, press ◄** (for a reverse search) **or ►** (for a forward search). When the tape finishes rewinding or forwarding, playback will start. The program numbers will count down beneath INDEX SEARCH during the search.
If the end of the tape is reached during the search, the search will stop and the tape may rewind. *Details are on page 38.*
Recordings should be at least 1 minute long in SP speed, 2 minutes in LP, and 3 minutes in SLP. Otherwise, the Index Mark will not be available. *Details on tape recording speeds are on page 67.*

Helpful Hints

- Time Search and Index Search are not available during recording.
- To remove a Search Display, press CLEAR.
- To cancel a search, press STOP ■.

38 Special Effects Playback

- Before you begin, press VCR so VCR light appears on the front of the DVD/VCR.



Forward and Reverse Searching (SP/LP/SLP) / Super High Speed Searching (LP/SLP)

1 **During tape playback, press and release FFW ►► or REW ◄◄.** A fast forward or reverse picture search will begin.
Press FFW ►► or REW ◄◄, then press again. The search speed will increase. Repeatedly pressing FFW ►► or REW ◄◄ will switch between Regular and High Speed Searching.

2 **To return to normal playback, press PLAY ►.**

Viewing a Still Picture

1 **During tape playback, press PAUSE ❚❚.** A still picture will appear on the screen.

2 **To advance the still picture one frame at a time, press PAUSE ❚❚ repeatedly.**

3 **To release the still picture and return to playback, press PLAY ►.**

Helpful Hints

- Still mode will switch to stop mode after 5 minutes to protect the DVD/VCR and the tape from damage.
- SP/LP/SLP means this feature will work with tapes recorded in Standard Playback, Long Playback or Super Long Playback. LP/SLP means this feature will work with tapes recorded in Long Playback or Super Long Playback. Tape speed details are on page 67.

Automatic Operation Features

The following tape features are available in VCR mode. Press VCR so VCR light appears on the front of the DVD/VCR, if necessary.

Automatic Playback

When you put a tape in the DVD/VCR, the power will come on. If the tape's record tab is missing, playback will begin. If a timer recording is set and "⏲" is flashing in the display panel, the power will not come on automatically when you insert a tape with the record tab intact.
If a timer recording is set and "⏲" is flashing in the display panel, the DVD/VCR will eject the tape if the record tab is missing.

Automatic Rewind, Eject

When a tape is played, fast forwarded or recorded to its end, the tape will rewind to the beginning, stop and eject itself. This feature does not operate if AUTO REPEAT is ON. *Details are on page 36.*

Tape Eject

A tape can be ejected with the DVD/VCR power on or off (but the DVD/VCR must be plugged in).
If a timer recording is set and "⏲" is shown on the display panel, press TIMER SET on the remote control or STOP/EJECT ■▲ on the front panel to cancel the timer standby mode, and then press STOP/EJECT ■▲ to remove the tape. Remember to insert a tape and press TIMER SET to reset the timer recording.

Automatic Tracking Adjustment

The VCR adjusts tracking automatically to give you the best possible picture quality. With some recordings, however, you may get a better picture using manual tracking.

Manual Tracking

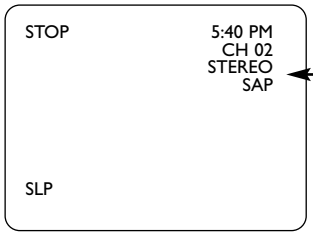
To manually adjust the tracking during normal playback of a videotape, press CH + or CH - on the remote. Tracking will return to Automatic Tracking when you press STOP ■ or insert a tape. You can also press CH + or CH - to remove vertical jitter in a Still picture.

Multi-Channel Television Sound/Hi-Fi Stereo 39

Your DVD/VCR can play tapes recorded in Hi-Fi (high fidelity) stereo, which produces a crisp, clear sound from the left and right audio channels. Your DVD/VCR also can play tapes recorded in a second audio (usually, that means your program is recorded in a second language). Of course, your DVD/VCR will play tapes recorded in monaural (single-source) sound as well. Your DVD/VCR also will record on a video cassette in Hi-Fi stereo or in second audio, so when you play that tape on the DVD/VCR, it will be in stereo or second audio. Read the directions on this page to familiarize yourself with the stereo and second audio setups. Then follow the directions below to record in stereo or second audio, or to play tapes recorded in Hi-Fi stereo.

Understanding Displays

When you watch TV channels through the DVD/VCR, portions of the display shown below will appear when you press DISPLAY twice.

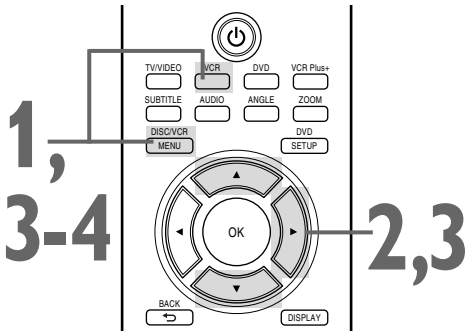


If SAP or STEREO appears, the program is available in second audio or stereo. Even though a program is available in second audio or stereo, you must program the DVD/VCR to receive or record the program. Follow the directions below. This display is not available during tape playback.

To play programs in stereo, connect the DVD/VCR to a Stereo or TV as described on pages 12-13. You will use the red and white AUDIO OUT jacks on the DVD/VCR.

Multi-Channel Television Sound

To set the DVD/VCR to receive programs in stereo or second audio, follow these steps.

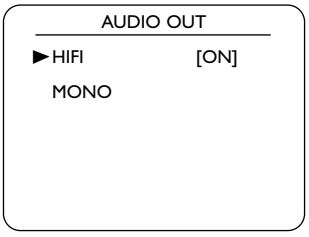


1. **Press VCR, then press DISC/VCR MENU** so MENU1 appears.
2. **Press ▲ or ▼ to select TV STEREO or SAP** (Second Audio Program). **Press ► so ON appears beside your selection.**
3. **Press DISC/VCR MENU to remove the menu.**

Hi-Fi Stereo

Multi-Channel Television Sound system broadcasts are recorded in Hi-Fi stereo. To play in Hi-Fi stereo the tapes recorded in Hi-Fi stereo, follow these steps.

1. **Press VCR, then press DISC/VCR MENU** so MENU1 appears.
2. **Press ▲ or ▼ to select AUDIO OUT. Then, press ►.**
3. **Press ▲ or ▼ to select HIFI.** ON will appear beside HIFI.



4. **Press DISC/VCR MENU to remove the menu.**

Helpful Hints

- You can only receive and record in stereo or second audio programs that are broadcast in stereo or second audio. You can only play a tape in Stereo or second audio if it was recorded in stereo or second audio. Please see above to determine if the program is in stereo or second audio.
- If SAP is ON but the program is not broadcast in Second Audio, you will hear and record the program in normal audio.
- Programs are recorded in both Hi-Fi stereo sound and in monaural (single-channel) sound.
- The audio level of a tape recorded in Hi-Fi stereo will differ from the audio level of a tape not recorded in Hi-Fi stereo.
- You can change to MONO if you want monaural audio playback. Follow steps 1-2, then press ▲ or ▼ to select MONO at step 3. Press DISC/VCR MENU. HIFI will disappear from the Status Display.
- If you play non-Hi-Fi tapes while AUDIO OUT is set to HIFI, HIFI will not appear on the Status Display. The tape will play in monaural sound.

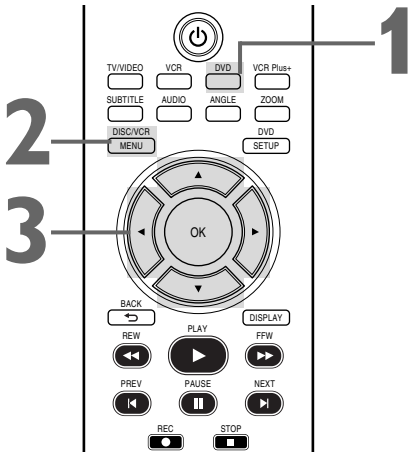
Please see additional notes on page 70.

English

40 Menus, Playback Control (PBC) Function

DVD Disc menus

Some DVDs contain menus that describe the contents of the disc or allow you to customize disc playback. For example, the menu may offer choices for subtitle languages, director's commentary or Sound Track Playback. To use the DVD menu and select playback features, follow these steps.



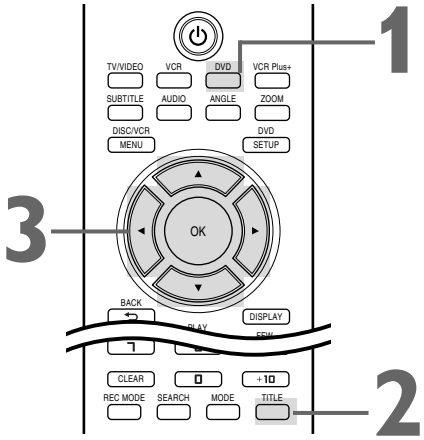
1 **Press DVD** to put the DVD/VCR in DVD mode.
DVD light will appear on the front of the DVD/VCR.

2 **Press DISC/VCR MENU.** The DVD's main Disc menu will appear.

3 **Press ▲, ▼, ◄ or ► to select an item, then press OK.**
Continue this process to set up all the features you want.

Using the Title Menu

Some DVDs have a Title menu, which lists the titles available on the DVD. Use the Title menu to play a specific title.



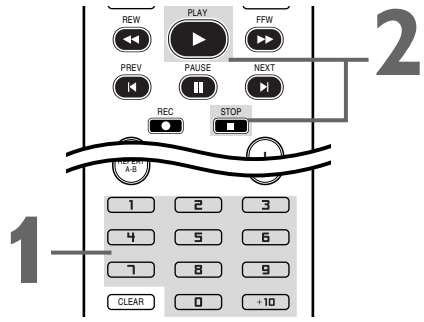
1 **Press DVD** to put the DVD/VCR in DVD mode.
DVD light will appear on the front of the DVD/VCR.

2 **Press TITLE.** The Title menu will appear.
If a Title menu is not available, the "X" may appear on the TV screen. Or, if the DVD only has a main Disc menu as described above, it may appear when you press TITLE.

3 **Press ▲, ▼, ◄ or ► to select a title, then press OK.**
Playback will begin at the title you selected.

Playback Control (PBC) Function

When playing a Video CD with PBC (Playback Control), you can use interactive menu (e.g., playlists) on the TV screen. Refer to instructions accompanying your Video CD for more details on PBC.
Some operations cannot be performed unless the PBC function is cancelled temporarily.



Cancelling and calling back the PBC function

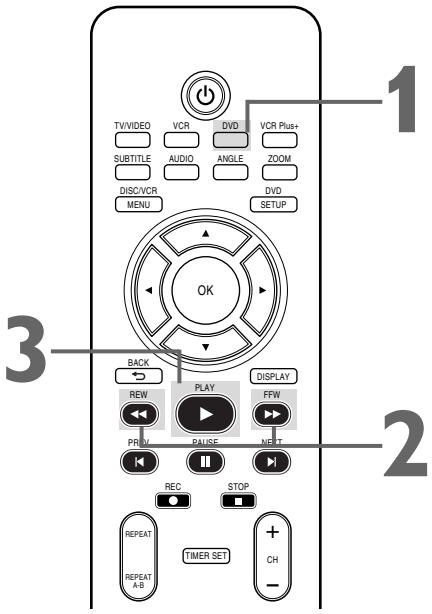
1 **While playback is stopped, press the Number Buttons to enter a track number.**
PBC function is now cancelled and the playback of the Video CD will start.

2 **To call back the PBC function, press STOP ■ twice, then press PLAY ►.**
The Title menu will appear on the TV screen.

Helpful Hints

- Menus vary among discs. Follow the literature accompanying the disc for details.
- Not all DVDs have Disc or Title menus.
- Some DVDs may refer to chapters as "scenes." Some DVDs may refer to the Title menu as the "scene index."
- TITLE will not be active with all DVDs.

Fast Forward/Fast Reverse 41



1 **Press DVD** to put the DVD/VCR in DVD mode.
DVD light will appear on the front of the DVD/VCR.

2 **During playback, press FFW ►► or REW ◄◄ on the remote control.**

- During DVD playback, pressing FFW ►► or REW ◄◄ will forward or reverse the picture at approximately 2, 8, 20, 50 or 100 times the normal speed. The speed may vary depending on the disc. ►► 1, ►► 2, ►► 3, ►► 4 or ►► 5 will appear briefly on the TV screen to indicate forward searching. Or, ◄◄ 1, ◄◄ 2, ◄◄ 3, ◄◄ 4 or ◄◄ 5 will indicate fast reverse.
  For DVD playback, the sound will be mute during the search.
- For Video CDs, Audio CDs, MP3, Windows Media™ Audio or DivX® playback, pressing FFW ►► or REW ◄◄ will forward or reverse the picture or sound at approximately 2, 8 or 30 times the normal speed. The speed may vary depending on the disc.
  ►► 1, ►► 2 or ►► 3 will appear briefly on the TV screen to indicate forward searching. Or, ◄◄ 1, ◄◄ 2 or ◄◄ 3 will indicate fast reverse.
  For Audio CD, MP3 or Windows Media™ Audio playback, the sound will be intermittent during the search.

Example: Playing a DVD in reverse at twice the normal playing speed.

3 **Press PLAY ► to return to normal playback.**

Helpful Hints

- If you use FFW ►► or REW ◄◄ during Dual Playback, JPEG playback will be paused.
- Picture quality of DivX® files in fast reverse is lower than that in fast forward.
- For some DivX® files, fast forward/fast reverse may not function.

x1.3 and x0.8 Rapid Play with Voice

Rapid Play with Voice is available only during playback on the discs recorded in the Dolby Digital format (except for the DivX® files). Rapid Play with Voice plays back in slightly faster/slower speed while keeping the sound quality as in the normal playback.

1 **During playback, press MODE.**
The current setting appears.

2 **Press OK to switch among ♪♪ (x1.3), ♪ (x0.8) and OFF.**
♪♪ : Plays back approximately at 1.3 times of normal playback.
♪ : Plays back approximately at 0.8 times of normal playback.
OFF : No effects.

3 **To resume normal playback, press PLAY ►.**

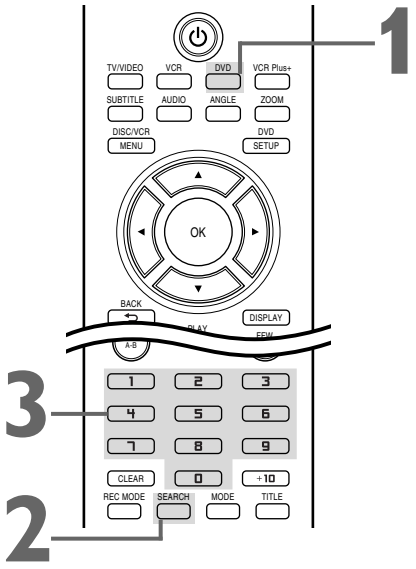
Helpful Hint

- During Rapid Play with Voice;
  - Audio Language setting, Black Level setting and Virtual Surround setting cannot be changed.
  - Virtual Surround does not function.
  - the PCM sound will be output if using the digital audio connection (COAXIAL).
  - depending on the scenes you are playing, Rapid Play with Voice may be unavailable.

English

42 Title/Chapter/Time Search

Title/Chapter Search

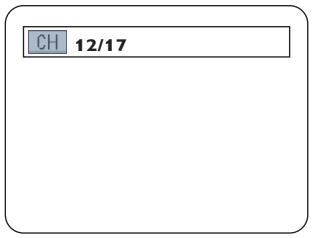


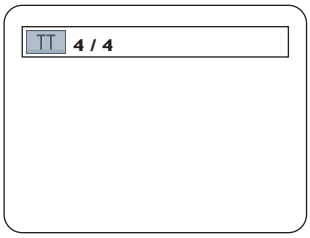
1 **Press DVD** to put the DVD/VCR in DVD mode. DVD light will appear on the front of the DVD/VCR.

2 **During DVD playback, press SEARCH repeatedly** until CH (for chapter) or TT (for title) appears on the TV. The number of available titles or chapters will appear at the right (/4, for example).

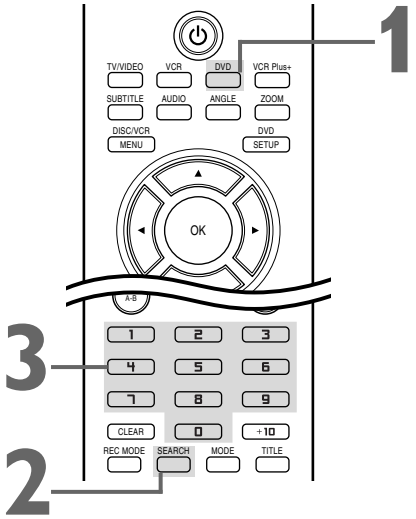
3 **Enter the title or chapter number using the Number buttons.** The title or chapter will play.

- To select a single-digit track number when there are more than 10 tracks, press OK to play the track.
- If you enter a track number that is not available on the Disc, playback will not begin (or the current track will continue to play).



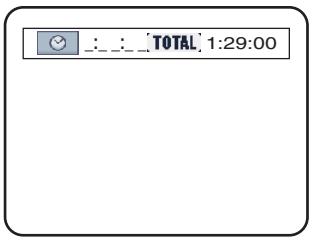


Time Search



1 **Press DVD** to put the DVD/VCR in DVD mode. DVD light will appear on the front of the DVD/VCR.

2 **During DVD, Video CD (without PBC), Audio CD or DivX® playback, press SEARCH repeatedly** until the Time Search Display appears.



3 **Within 30 seconds, use the Number buttons to enter the elapsed playing time (of the track or title) at which you want playback to begin.** Enter the time in hours, minutes and seconds. Within a few seconds, playback will start at the specified time.

- Example: 1 hour, 23 minutes and 30 seconds
  1 → 2 → 3 → 3 → 0
- Make sure the time you enter is within the total time of the current title or track. If it is not, the time space will clear and playback will continue at its current point. The total time available in the current track or title will appear in the Time Search Display.
- If you make a mistake entering the time, press CLEAR to clear the time area. Enter the correct information.

Helpful Hints

- When playback is stopped, use the Number buttons to select a title for immediate playback. During playback, use the Number buttons to choose a chapter for immediate playback.
- Title/Chapter Search is not available with some DVDs.
- Time Search is not available for MP3, Windows Media™ Audio and JPEG files.
- For some DivX® files, Time Search may not function.

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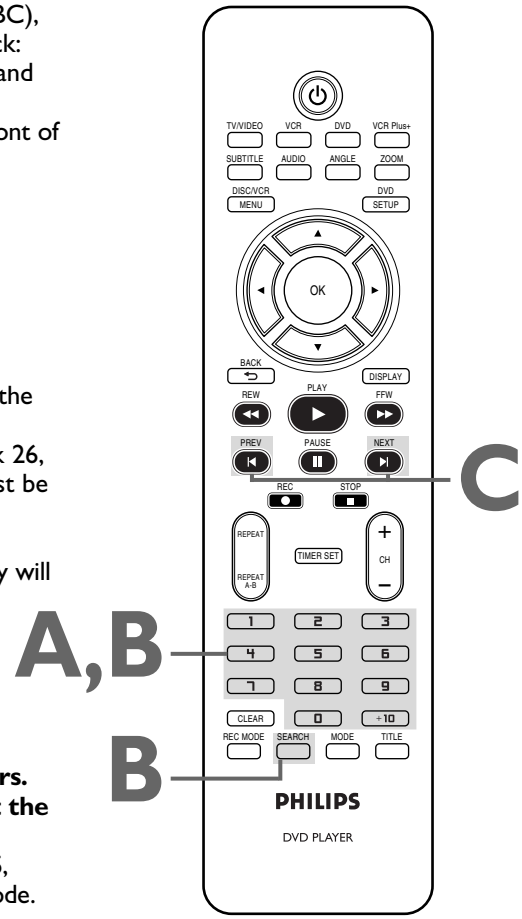
There are three ways to play a specific Video CD (without PBC), Audio CD, MP3, Windows Media™ Audio, JPEG or DivX® track: Use the Number buttons, the SEARCH button or NEXT ▶| and PREV |◀.

- Before you begin, press DVD so DVD light appears on the front of the DVD/VCR.



A

Using the Number Buttons

Press the Number buttons to enter a track number.
Playback will start at the selected track.
For tracks 10 and above, press the +10 button so the Search Display (TR _ _ /12 - an example of total tracks) appears on the TV. Press the Number button of the first digit, then press the Number button of the second digit. For example, to play track 26, press +10, then Number 2, then Number 6 (Each number must be pressed within 30 seconds of the previous number).
For single-digit tracks (1-9), press a single Number button.
If you enter a track number that is not available on the disc, play will not begin (or the current track will continue to play).

B

Using SEARCH

Press SEARCH so the Track Search Display (TR) appears. Within 30 seconds, press the Number buttons to select the track number. Playback will begin at the selected track. For a single-digit track (1-9), enter 0 first. For example, to play track 5, press 0, 5. You do not have to use the +10 button in search mode.

C

Using NEXT ▶| or PREV |◀

During playback, press NEXT ▶| to skip the current track and move to the next track. The track number will appear briefly on the DVD/VCR display panel.
Or, during playback, press PREV |◀ to return to the beginning of the current track. Press PREV |◀ repeatedly to go to previous tracks. The track number will appear briefly on the DVD/VCR display panel.

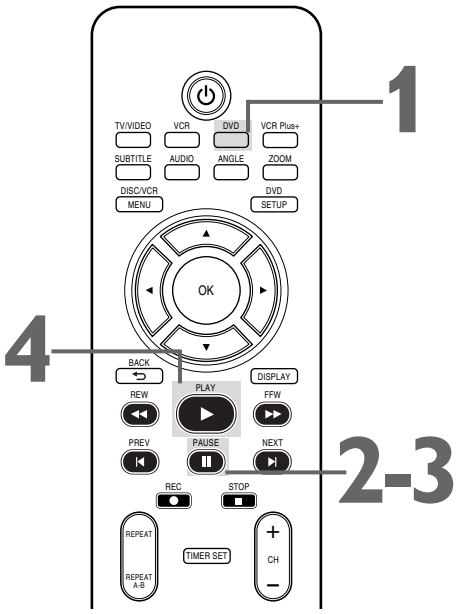
Helpful Hints

- NEXT ▶| and PREV |◀ does not function when playback is stopped.
- You cannot use NEXT ▶| to go from the last track on the disc to the first track.
- Using NEXT ▶| or PREV |◀ during Dual Playback will only affect MP3 files. If you want to skip JPEG files during Dual Playback, press ◀ or ▶. Please note that pressing NEXT ▶| or PREV |◀ will affect both MP3 and JPEG files if SLIDE SHOW is set to MUSIC.

English

44 Paused and Step-by-Step Playback, Resume On

Paused and Step-by-Step Playback



1 **Press DVD** to put the DVD/VCR in DVD mode.
DVD light will appear on the front of the DVD/VCR.

2 **During disc playback, press PAUSE ❚❚.** Playback will pause and the sound will be mute.
- Pressing PAUSE ❚❚ once during Dual Playback will pause a JPEG file only. Pressing PAUSE ❚❚ one more time will pause an MP3 playback.

3 **When playing a DVD, Video CD or DivX®, press PAUSE ❚❚ repeatedly to see the picture advance one frame (or step) at a time.** The sound will remain mute.
Pressing PAUSE ❚❚ repeatedly during Audio CD, MP3, Windows Media™ Audio or JPEG playback will have no effect.

4 **Press PLAY ► to resume playback.**

Helpful Hint

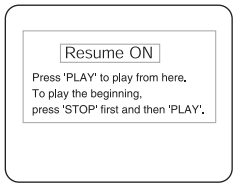
- Set STILL MODE to FIELD in the DISPLAY menu if paused images are blurry. *Details are on pages 60-61.*

Resume On

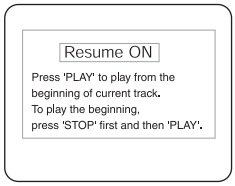
1 **Press DVD** to put the DVD/VCR in DVD mode.
DVD light will appear on the front of the DVD/VCR.

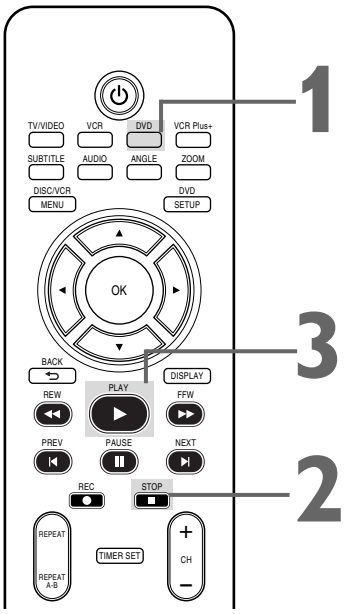
2 **Press STOP ■ during playback.** In a few seconds, the following Resume message will appear on the TV screen.

For DVD, VideoCD, AudioCD or DivX®:



For MP3, Windows Media™ Audio or JPEG:





3 **Press PLAY ►.** In a few seconds, playback will resume from the point at which it stopped last. You can Resume Playing at the same point even if you turn off the DVD/VCR, then turn it on again later. However, opening the disc tray will cancel the Resume feature. Playback will start at the beginning the next time you insert the disc.
For MP3, Windows Media™ Audio and JPEG playback will resume from the beginning of the current track.
To cancel Resume and start playing the disc from the beginning, press STOP ■ again while playback is in the resume stop mode. As for MP3, Windows Media™ Audio, JPEG and DivX® playback, file list will appear when you cancel Resume. Press PLAY ► to start playing the disc from the beginning.
- To Resume Playback of a Video CD with PBC function, you have to cancel the PBC function first. See page 40 on how to cancel the PBC function.
- For some DivX® files, Resume may not function.

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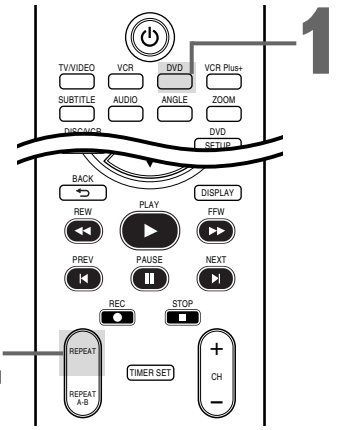
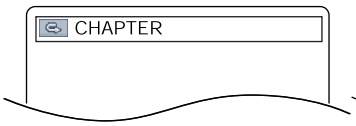
Repeat

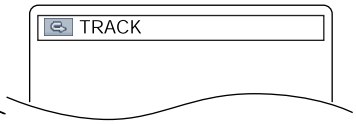


1 **Press DVD** to put the DVD/VCR in DVD mode.
DVD light will appear on the front of the DVD/VCR.

2 **During DVD, Video CD (without PBC), Audio CD, MP3, Windows Media™ Audio, JPEG or DivX® playback, press REPEAT repeatedly until the repeat mode you want appears on the TV screen.**
On a DVD, select CHAPTER, TITLE or OFF. On a Video CD (without PBC) and Audio CD, select TRACK, ALL (all tracks on the disc) or OFF.
With MP3, Windows Media™ Audio, JPEG or DivX® tracks, select TRACK, GROUP (all tracks in the current folder), ALL or OFF.
Selecting a new track, chapter or title will cancel Repeat Playback.



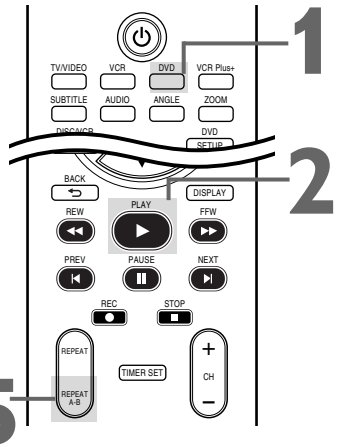
Example: Repeat a DVD chapter



Example: Repeat a Video CD, Audio CD or DivX® track

A-B Repeat

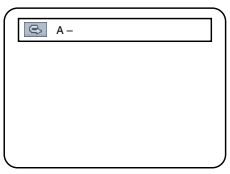
You can play a specified section of a DVD, Video CD, Audio CD or DivX® repeatedly. Follow these steps to set up the section you want to repeat.



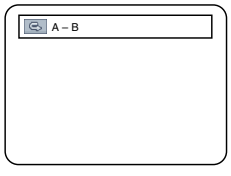
1 **Press DVD** to put the DVD/VCR in DVD mode.
DVD light will appear on the front of the DVD/VCR.

2 **Press PLAY ► to play the disc to the point at which you want repeated playback to begin.**

3 **Press REPEAT A-B to set the starting point (A).**
If you make a mistake, press CLEAR. This will erase point A and let you start over. OFF will appear briefly on the TV screen.



4 **Play the disc to the point at which you want repeated playback to end, then press REPEAT A-B again.** Within a few seconds, the A-B section will begin to play repeatedly. The segment will play over and over until you cancel the A-B Repeat feature.



5 **To cancel A-B Repeat, press REPEAT A-B.** OFF will appear on the TV screen. Regular playback will resume.

Helpful Hints

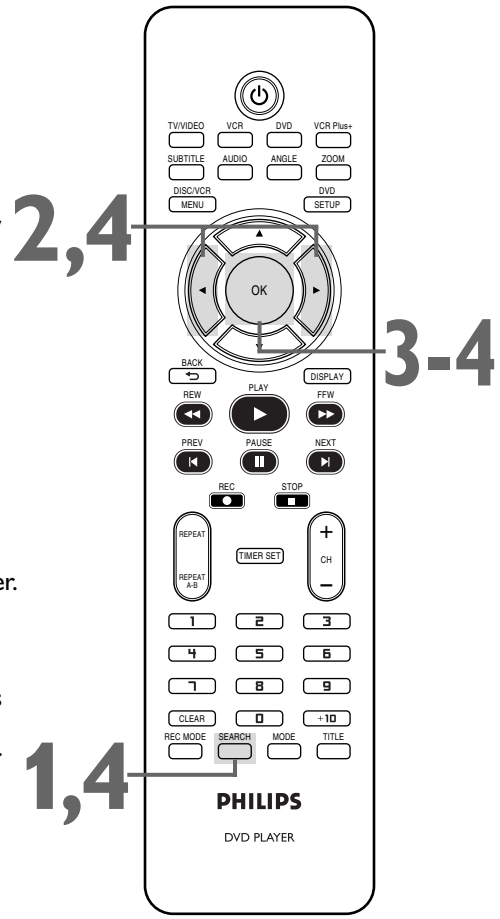
- Repeat Playback and A-B Repeat are not available with some discs.
- The entire A-B Repeat section must be within a single title or track. If you do not enter Point B before the end of the track or title is reached, the end of the track or title will become Point B automatically.
- Point B must be later on the disc than Point A.
- A-B Repeat is not available with MP3, Windows Media™ Audio and JPEG files.
- For some DivX® files, A-B Repeat may not function.
- If you choose GROUP Repeat during Dual Playback, all tracks or files in each folder will play repeatedly. For example if you choose GROUP Repeat during Dual Playback of MP3 folder A and JPEG folder B, all MP3 files in folder A and all JPEG files in folder B will be repeated.

English

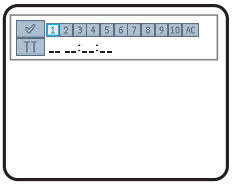
46 Markers

Use Markers to remember your favorite places on a DVD, Video CD (without PBC) or Audio CD.

- Before you begin, place the DVD/VCR in DVD mode. Press DVD so DVD light appears on the front of the DVD/VCR.



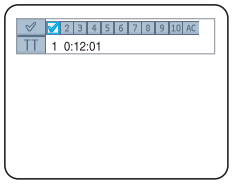
1 **Play the disc to within 30 seconds of the point at which you want to set the Marker. Press SEARCH repeatedly** until the Marker appears at the top of the TV screen.



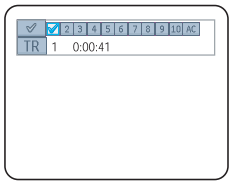
Example: DVD

2 **Within 30 seconds, press ◄ or ► to select a Marker (1-10).** Make sure _ _ : _ _ : _ _ appears beneath the number.

3 **When the playback reaches the point you want to remember, press OK.** The title or track number and its elapsed playing time will appear beneath the Markers. A checkmark will replace the Marker number. The Marker Display will disappear in about 30 seconds, or press BACK ⮌ or SEARCH again to remove it.



Example: DVD



Example: Video CD or Audio CD

4 **To return to a Marker during playback, press SEARCH repeatedly.**
Press ◄ or ► to choose the Marker you want, then press OK. Disc playback will continue from the marked point.

Helpful Hints

- Opening the disc tray or turning off the DVD/VCR will erase all the Markers.
- Press ◄ or ► to select a Marker. Press CLEAR. Press BACK ⮌ to remove the display.
- Press ► to select AC, then press OK. Press BACK ⮌ to remove the display.

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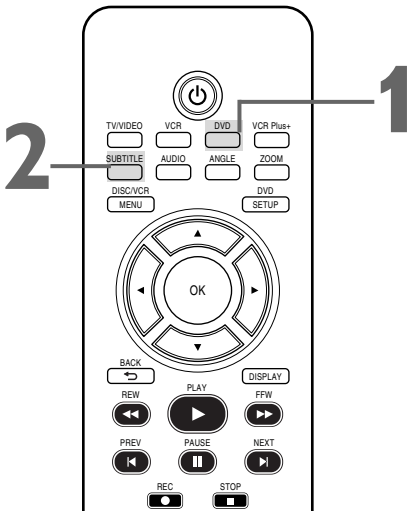
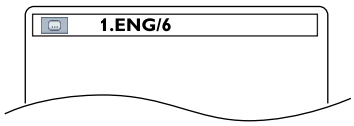
Subtitles

The DVD/VCR allows you to select a language for subtitles during playback. You may select only languages that are available on the DVD.

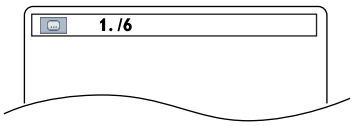


1 **Press DVD** to put the DVD/VCR in DVD mode.
DVD light will appear on the front of the DVD/VCR.

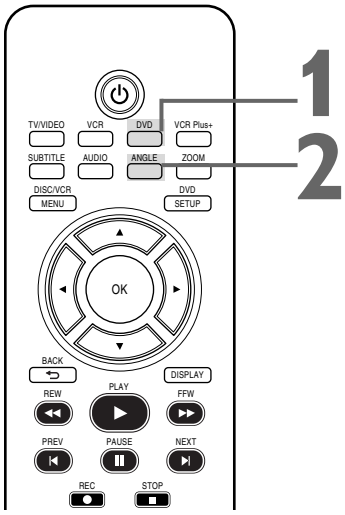
2 **During DVD or DivX® (if available) playback, press SUBTITLE repeatedly to select a subtitle language.**
The number of available languages appears at the right of the Subtitle Display. In the example below, six languages are available (/6). After a few seconds, the subtitles will appear.
For discs with DivX® files, the screen only displays the number of subtitle languages.
Or, press SUBTITLE repeatedly to turn off subtitles.
When no subtitles are available, "NOT AVAILABLE" appears at the right of the Subtitle Display.



Example: English as first of six available subtitles (DVD)



Example: DivX®

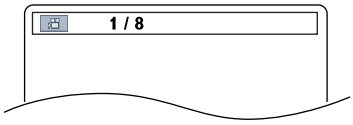


Camera Angles

Some DVDs contain scenes recorded from different angles or perspectives. The perspective will not change if the DVD does not contain sequences recorded from different camera angles.

1 **Press DVD** to put the DVD/VCR in DVD mode.
DVD light will appear on the front of the DVD/VCR.

2 **During playback, press ANGLE repeatedly to select a different perspective.** The number of available angles appears at the right of the Angle Display. In this example, eight angles are available (/8).



Example: Angle 1 of eight available angles

Helpful Hints

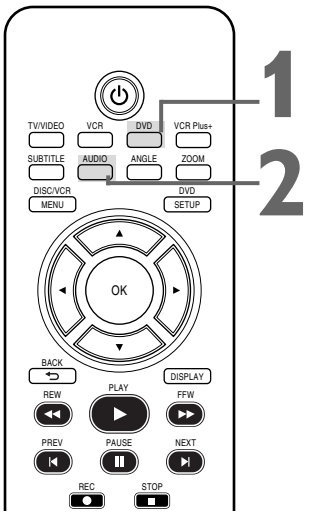
- With some DVDs, you must select a subtitle language in the Disc menu.
- If the desired language does not appear after pressing SUBTITLE several times, the disc does not have subtitles in that language.
- Opening the disc tray will cancel your subtitle setting.
- For discs with DivX® files, the screen only displays the number of subtitle languages.
- If the ANGLE ICON setting is ON, will appear on the TV screen when the current portion of the disc has multiple camera angles. To set the ANGLE ICON ON or OFF, see page 65.

English

48 Audio Language, Stereo Sound Mode

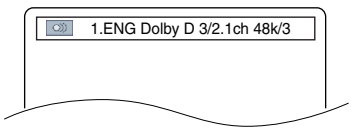
Audio Language

You can select a language for DVDs during playback if multiple languages are available.

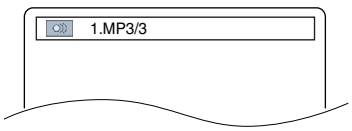


1 **Press DVD** to put the DVD/VCR in DVD mode.
DVD light will appear on the front of the DVD/VCR.

2 **During DVD or DivX® (if available) playback, press AUDIO repeatedly to choose one of the available languages.** Audio Display appears at the top of the TV screen, and the new audio will be heard. The display will disappear after about 5 seconds.
The Audio Display may show the current settings for the Dolby Digital or Multi-channel sound, if they are available on the disc, and the sampling rate of the disc. The number of available languages appears after the " / " at the right of the display (/3, for example).



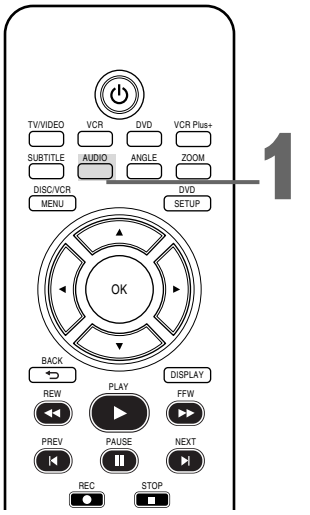
Example: English audio (DVD)



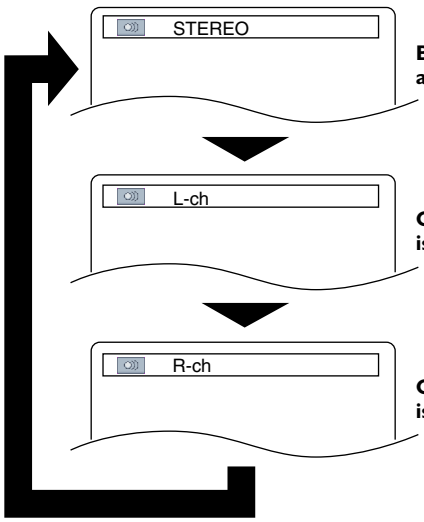
Example: DivX®

Stereo Sound Mode

Adjust Stereo Sound to determine whether you will hear the left channel, the right channel or both channels (stereo) during Video CD or Audio CD playback.
If you connected the DVD/VCR to a Stereo using the COAXIAL DIGITAL AUDIO OUT jack as described on page 14, or if you connected to a TV with only the RF coaxial cable, you cannot adjust stereo sound mode.



1 **Press AUDIO repeatedly during Video CD or Audio CD playback to choose STEREO, L-ch or R-ch.**



Both right and left channels are heard (stereo).

Only the left channel is heard.

Only the right channel is heard.

Helpful Hints

- If a language is not available after pressing AUDIO several times, the DVD does not have that language.
- Some DVDs only let you change the language in the Disc menu.
- Audio languages may be abbreviated (such as ENG for English). Or, three dashes (- - -) may appear instead of an abbreviation.
- Audio language selection cannot be made during Rapid Play with Voice. (Refer to page 41.)
- For discs with DivX® files, the screen only displays MP3, MP2 or Dolby Digital audio. Other audio sounds will be displayed with "- - -".

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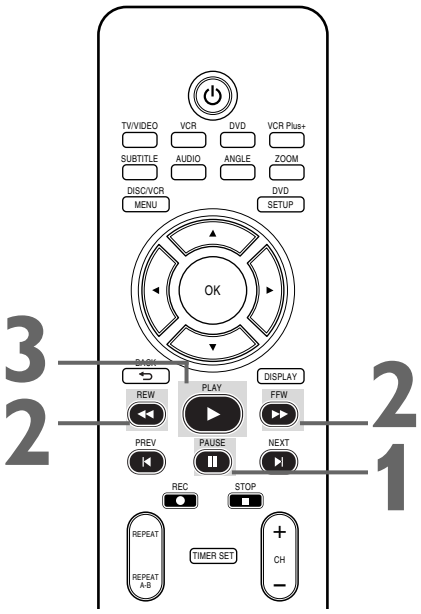
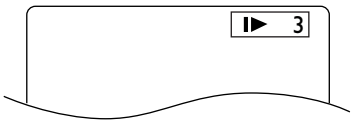
Slow Motion



1 **Press PAUSE ❚❚ during DVD, Video CD or DivX® playback.**

2 **Press FFW ▶▶ or REW ◀◀.** Slow Motion Playback will begin. Press FFW ▶▶ or REW ◀◀ repeatedly during Slow Motion Playback to play a DVD forward or backward at approximately 1/16, 1/8 or 1/2 the normal speed. Reverse slow motion is not available on a Video CD.
An I▶ 1 (1/16), I▶ 2 (1/8) or I▶ 3 (1/2) will appear briefly on the TV screen to indicate Slow Forward Playback.
An ◀I 1 (1/16), ◀I 2 (1/8) or ◀I 3 (1/2) will indicate Slow Reverse Playback.

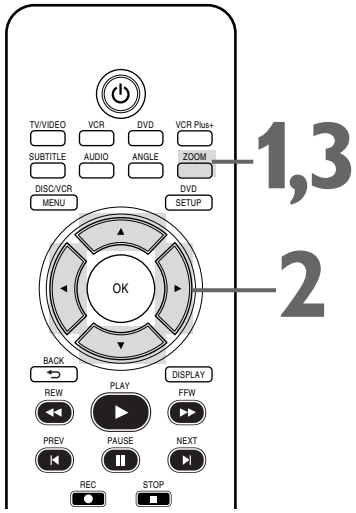


Example: Playing a DVD forward at half the normal speed.

3 **Press PLAY ▶ to return to normal playback.**

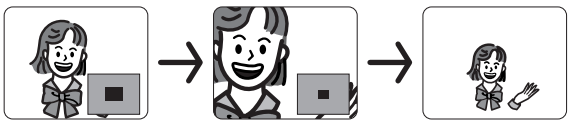
Zoom

Zooming lets you enlarge the playback image of DVDs, Video CDs, JPEG files or DivX® DVDs/CDs, and lets you pan through the enlarged image.



1 **Press ZOOM during playback or when playback is paused.** The picture will appear twice as large. Press ZOOM again to make the picture four times larger than normal. Either x2 or x4 will appear beside icon in the upper left corner of the TV screen.

2 **While the picture is enlarged, press ▲, ▼, ◀ or ▶ to move the zoomed image up, down, left or right.**
The gray box with an inner blue box that shows during Zoomed Playback is the position guide. To remove it or show it, press OK. The position of the blue box inside the gray box indicates the position of the zoomed image within the overall picture.



3 **To return the picture to normal, press ZOOM repeatedly.**

Helpful Hints

- Only slow forward is available for Video CDs or DivX® files.
- The sound will be mute during Paused or Slow Motion Playback.
- You cannot zoom a Disc menu.
- The x4 zooming is not active with some discs. Only x2 zooming is available for Video CDs, JPEG and DivX® files.
- Position guide is not available for JPEG playback.

English

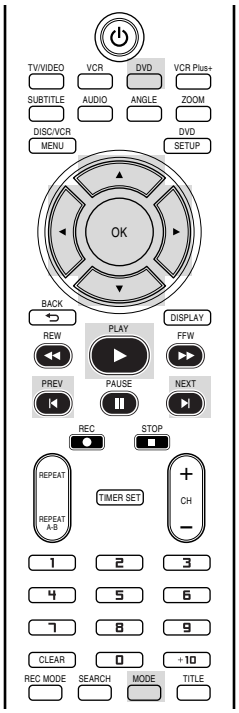
50 Program/Random Playback

Program Playback

You may determine the order in which Audio CD, MP3, Windows Media™ Audio or JPEG tracks will play.

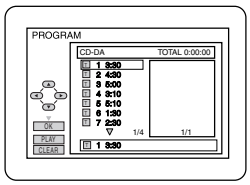
Random Playback

You may play the tracks of an Audio CD in Random order instead of the order in which they are recorded (1, 2, 3...). You can also use this feature for MP3, Windows Media™ Audio and JPEG tracks.

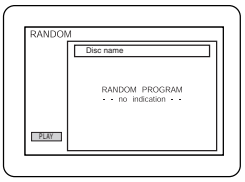


1 **Press DVD** to put the DVD/VCR in DVD mode. DVD light will appear on the front of the DVD/VCR.

2 **While playback is stopped, press MODE repeatedly until the PROGRAM/RANDOM screen appears.**



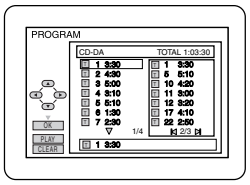
Example: Audio CD



Example: MP3 (DUAL PLAYBACK - OFF)

Program Playback

3 **Press ▲ or ▼ to select a track you want to play, then press OK.**



Example: Audio CD

Press CLEAR to erase the last track in the program if you make an error. Additional tracks may be on other screens. Press ▼ to go on to the next page, and press ▲ to go back to the previous page. Repeat this step until you have selected all the tracks you wish to play in the program. To see tracks in a program when there are more than 8 tracks, use NEXT ►I, PREV I◄ to see all the tracks. For MP3, Windows Media™ Audio or JPEG folders, press ◄ or ► to go to the previous or next level of folders. Press TITLE to return to the first item in the highest level.

4 **Press PLAY ►.** The tracks will play once in the order you set. Turning off the player or opening the disc tray will erase the program.

Random Playback

3 **While the RANDOM screen appears, press PLAY ►.** The tracks will play in random order. After all the tracks play once, playback will stop.

Helpful Hints

- You cannot use the Number buttons or SEARCH to select another track during Program/Random Playback. Use NEXT ►I or PREV I◄ to select other tracks.
- You cannot combine Random Playback with a program.
- You may play a program or a track within a program repeatedly. During Program Playback, press REPEAT so ALL (all tracks in the program) or TRACK appears. The entire program or the current track will play over and over.
- You cannot alter a program during playback.
- You can start Program Playback only while in the PROGRAM screen.
- A program can have a maximum of 99 tracks.
- To erase all tracks in the program, select ALL CLEAR at step 3.
- Program/Random Playback of MP3, Windows Media™ Audio or JPEG tracks is not available while DUAL PLAYBACK is ON.

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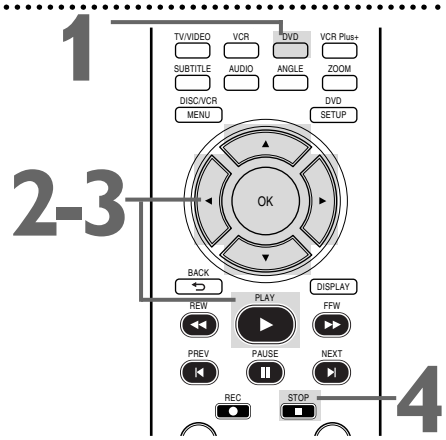
MP3/Windows Media™ Audio/JPEG Playback 51

The DVD/VCR will play MP3, Windows Media™ Audio and JPEG files that you record and finalize on a CD-R (Compact Disc-Recordable) or CD-RW (Compact Disc-Rewritable).
These discs may contain pictures in a JPEG format or audio tracks in an MP3 or Windows Media™ Audio format. For example, you may have photographic film developed by a retailer that places the pictures on a CD-R for you. These pictures may be in JPEG format. Or, you may copy or download MP3/Windows Media™ Audio music files from certain legal Internet sites, then copy those files onto a CD-R or CD-RW.
You cannot make or record such discs using this DVD/VCR. See your computer manual for details on recording.
Keep these characteristics in mind when making discs you intend to play on the DVD player of this DVD/VCR.

- Record MP3 files at a sampling frequency of 44.1 kHz or 48 kHz. Record in a constant bit rate between 32 kbps and 320 kbps.
- Record Windows Media™ Audio tracks at a sampling frequency of 44.1kHz or 48kHz. Record in a constant bit rate between 48 kbps and 192kbps.
- When recording JPEG files, the size of the picture should be between 32 x 32 and 6300 x 5100 dots.



1 **Press DVD** to put the DVD/VCR in DVD mode.
DVD light will appear on the front of the DVD/VCR.

2 When you put a CD-R or CD-RW with MP3, Windows Media™ Audio or JPEG files in the DVD/VCR, a File List will appear automatically. Or if the disc is already in the DVD/VCR and you want to call up the file list, press DISC/VCR MENU. (If you use **PLAY ►** to close the disc tray, Playback starts automatically.) **Press ▲ or ▼ to select a folder, MP3, Windows Media™ Audio or JPEG file.**

3 **If you choose a track or file, press PLAY ► or OK.**
Starting with the track or file you selected, the tracks/files will play in the order they were recorded, i.e. 1, 2, 3.
If you select a folder and press OK, the tracks or files within that folder will appear. Press ▲ or ▼ to select the track or file you want to play, then press PLAY ► or OK.

- Press TITLE to return to the first item in the highest level of folders or files. You also can press ◄ or ► to return to previous or next levels.
- To change the Transition Mode for JPEG playback, press MODE repeatedly until Transition Mode appears on top of the TV screen during playback. Then press ◄, ► or OK to switch CUT IN/OUT and FADE IN/OUT. If you choose CUT IN/OUT, the images will cut in and out sharply as playback progresses. If you choose FADE IN/OUT, the images will fade in and out as playback progresses.
- To change the size of the playback image, press MODE repeatedly until SIZE MODE appears at the top of the TV screen during playback. Then press ◄, ► or OK to switch NORMAL(100%) and SMALL(95%).
- Press MODE or BACK ⮌ to remove the display.
- During JPEG playback, press ANGLE to rotate a picture 90 degrees clockwise.

4 **To stop playback, press STOP ■.**

Helpful Hints

- MP3/Windows Media™ Audio tracks and JPEG images are known as files. Groups of files are called folders.
- Folders have the icon, MP3 files have the icon, Windows Media™ Audio files have the icon and JPEG files have the icon.
- A maximum of 255 folders can be recognized. A maximum of 999 files can be recognized.
- If you use PLAY ► to close the disc tray, playback starts automatically. If you use OPEN/CLOSE ⏏ to close the disc tray, you have to press PLAY ► to start playback.
- During playback, use the Number buttons or NEXT ►I and PREV I◄ to change tracks. If a track is not available, "X" will appear on the TV screen, and playback may resume at an incorrect track or may continue with its current track.
- To see the File List during playback, press DISC/VCR MENU. The current track will be highlighted.
- Progressive JPEGs (JPEG files saved in the progressive format) will not play on this DVD player.
- Copyright protected Windows Media™ Audio files will not play on this DVD player.
- High resolution JPEG files takes longer to be displayed.
- SIZE MODE may have no effect on some files (e.g. files with a small picture size).

English

52 MP3/Windows Media™ Audio/JPEG Playback (cont'd)

Dual Playback

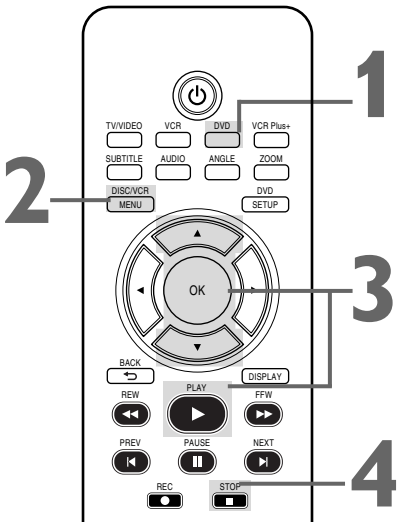
This feature lets you play MP3 and JPEG files simultaneously.
Available only when DUAL PLAYBACK is ON.
See pages 65-66 on how to set the DUAL PLAYBACK ON or OFF.

1 **Press DVD to put the DVD/VCR in DVD mode.**
DVD light will appear on the front of the DVD/VCR.

2 **Press DISC/VCR MENU during MP3/JPEG playback.**
A File List will appear.

3 **Press ▲ or ▼ to select a desired MP3/JPEG file from the list and press PLAY ► or OK.**

4 **To stop playback, press STOP ■.**



Folder Playback

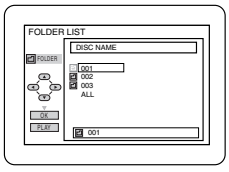
You may select to play a folder containing MP3 and JPEG files.
Available only when DUAL PLAYBACK is ON.
See pages 65-66 on how to set the DUAL PLAYBACK ON or OFF.

1 **Press DVD to put the DVD/VCR in DVD mode.**
A Folder List will appear.

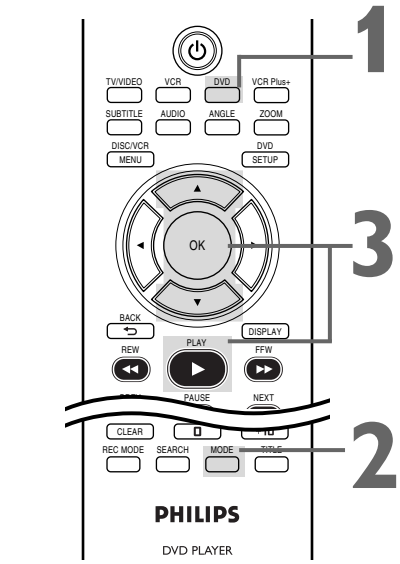
2 **While playback is stopped, press MODE.**
DVD light will appear on the front of the DVD/VCR.

3 **Press ▲ or ▼ to select a folder, then press PLAY ► or OK.**

- MP3 and JPEG files in the selected folder will play simultaneously.



- If Windows Media™ Audio files are in the folder, those files will be skipped during Folder Playback.



Helpful Hints

- If you press PLAY ► directly after you inserted a disc which contains both MP3 and JPEG files and if the DUAL PLAYBACK setting is ON, Dual Playback will start automatically.
- You can not play Windows Media™ Audio and JPEG files together at the same time. If you choose a Windows Media™ Audio file during Dual Playback, only Windows Media™ Audio file will play.
- Dual Playback may not function properly if MP3 and JPEG files on the disc interfere each other due to the difference in their data size.

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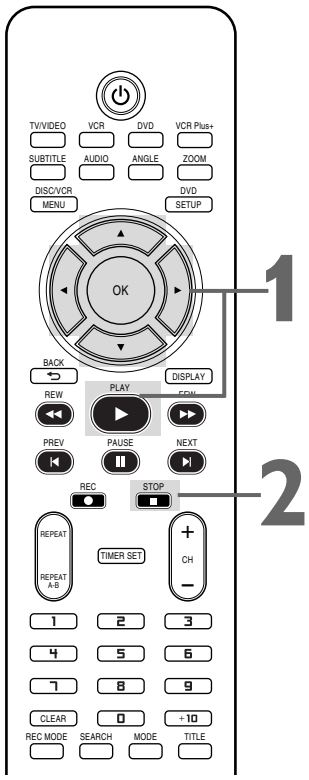
This DVD/VCR can play back DVD+R/+RW and CD-R/-RW discs recorded in DivX® Format. When a DVD+R/+RW or CD-R/-RW with DivX® files is inserted in the DVD player and the VCR/DISC MENU is pressed, the FILE LIST will appear. The number of tracks will be also displayed on the front panel.



1 **Press ▲ or ▼ to select the desired group (folder) or track.**

- To return to the previous screen, press ◄.
- If a group (folder) is selected, press ► or OK to go on to the track selection screen. Press ▲ or ▼ to choose track, then press PLAY ► or OK.
- If a track is selected, press PLAY ► or OK to start playing back tracks. The selected track and the subsequent tracks will be played back.
- When selecting the folders:
  - Press ► when you want to go to the next level.
  - Press ◄ when you want to go back to previous level (except for the top level).
- Press TITLE to return to the first item.

2 **Press STOP ■ to stop playback.**

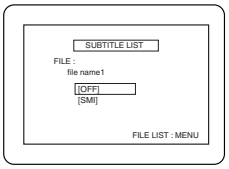
Applicable DivX® file		Remarks
Playable Codec of AVI files	DivX®3.1.1, DivX®4.x, DivX®5.1.1 DivX®6.0	•They are recognized as MPEG4.
Maximum size of image	720 x 480 @30 fps 720 x 576 @25 fps	•When you made DivX® files on a CD-R/-RW, the recommendation maximum size of image is 480 x 260 @ 24 fps.
Sampling frequency of audio	8 kHz - 48 kHz	•It is prohibited to record MP3 sound on a digital device when the connection is made digitally.
Audio type	MPEG1 audio layer 3 (MP3) MPEG1 audio layer 2 Dolby Digital	•MP3 files recorded at fixed bit rate of 32 kbps or higher are recommended.

Constant bit rate of image between 500 kbps and 1500 kbps is recommended if you make DivX® files on a CD-R/-RW.

DivX® Subtitle

The subtitle created by the user can be displayed during DivX® playback.

1 After selecting the DivX® file, the SUBTITLE LIST will appear when the DivX® SUBTITLE is set to anything other than OFF. (Refer to page 58.)



2 Press ▲ or ▼ to select the desired extension you want to display, then press OK. DivX® with the subtitle starts playback. The subtitle cannot be displayed when the setting is OFF.

- If there is more than one extension, the extension selection appears in the Subtitle List.

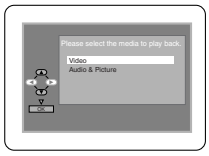
Helpful Hints

- DivX® subtitle can only be displayed according to the same name with an extension of the DivX® file name.
- Files whose extension is other than ".SMI", ".smi", ".SRT", ".srt", ".SUB" and ".sub" will not be listed in the Subtitle List.
- This DVD/VCR cannot be recognized if the DivX® file and its subtitle file are not in the one folder.
- The subtitle may not be displayed if the file size is too large.
- To change the subtitle, refer to "Subtitles" on page 47 if multiple subtitles are available.
- The subtitle cannot display while the on-screen information is being displayed.
- If DivX® SUBTITLE is set to OFF in Language Menu, the Subtitle List will not be displayed even if you select a DivX® file with created subtitle. (Refer to "DivX® SUBTITLE" on page 58.)
- Unrecognizable characters will be replaced with asterisks.

54 DivX® Playback (cont'd)

Hint

- DivX® is a codec (compression/decompression) that can compress images to a very small amount of data. The software can compress video data from almost any sources to the size that can be sent on the Internet without compromising visual quality of the images.
- A file with an extension of ".avi" and ".divx" is called an DivX® file. All files with the ".avi" extention are recognized as MPEG4.
- Files whose extension other than ".avi" and ".divx" will not be listed on the DivX® menu. However, unplayable groups or tracks may be displayed, depending on the recording conditions.
- Even if the file has an extension of either ".avi" and ".divx", this DVD/VCR cannot play it back if it is recorded in the format other than DivX®.
- Folders are known as Groups; files are known as tracks.
- DivX® file have icon.
- A maximum of 255 folders or 999 files may be recognized in one disc.
- Up to 8 hierarchies can be recognized in one folder. Files in the 9th or deeper hierarchies cannot be played back.
- If the track extends beyond the scope of screen, a down arrow "▼" appears, indicating that the files continue on to the next page. The current page number and the number of total pages are shown on the left of the down arrow "▼".
- The name of group and track can be displayed up to 25 characters. Unrecognizable characters will be replaced with asterisks.
- You can play back the disc recorded in multi-session.
- Playback will be paused if the File List is displayed during the playback.
- It may take a while for audio and images to be output after you inserted a disc and pressed PLAY ►.
- When playing back the files recorded in high bit rates, the images can be interrupted in some occasions.
- Although DivX® logo has been obtained for this DVD/VCR, it may not be able to play back some data, depending on the characteristics, bit rates, or audio format settings, etc.
- Use the software recognized by the DivX, Inc. when you make DivX® files.
- A DivX® file whose file size exceeds 2 GB cannot be played back.
- When using tools or utilities to make up DivX® files, read their instruction manual beforehand.
- Never use the MPEG4 tools when you make DivX® files. Otherwise, noise or disturbance of the picture and sound may be generated.
- If a large-sized DivX® file is selected, it may take a while to start the playback (over 20 seconds sometimes).
- If DivX® files written on CDs cannot be played, rewrite them on a DVD and try playing it back.
- For more information on DivX®, please visit http://www.divx.com.
- If you insert a CD-R/-RW with DivX® files that are mixed with MP3, Windows Media™ Audio or JPEG files, the Playback Media Selection screen will be displayed. Please select Video and proceed to step 1.



- Press TITLE to call up the Playback Media Selection screen in stop mode.
- If you select Audio & Picture, instead of Video on the Playback Media Selection screen, the DVD/VCR can play MP3, Windows Media™ Audio or JPEG files. Refer to page 51 for details.
- You cannot play the DivX® VOD files obtained with different registration codes on this DVD/VCR. Press DISC/VCR MENU and select other files that can be played.

Hint for the purchased or rental official DivX Certified™ product

- When you purchased or rental a DivX® file through the official site of DivX® Video which is called DivX® Video-On-Demand (VOD) services, a registration code is required every time you get the new file from the DivX® VOD services. Refer to "Others" on page 66.
- Some DivX® VOD files are restricted with the limited playable times (you cannot play them back beyond the limit). If your DivX® VOD file has such limit, the playback confirmation screen will appear. Use ◄ or ► to select "YES" if you want to play back the file, or to select "NO" if you do not wish to play it back. Then, press OK to confirm the selection.
- You cannot play back the DivX® VOD files, of which rental period has been expired. In such case, press DISC/VCR MENU and select other files that can be played back.

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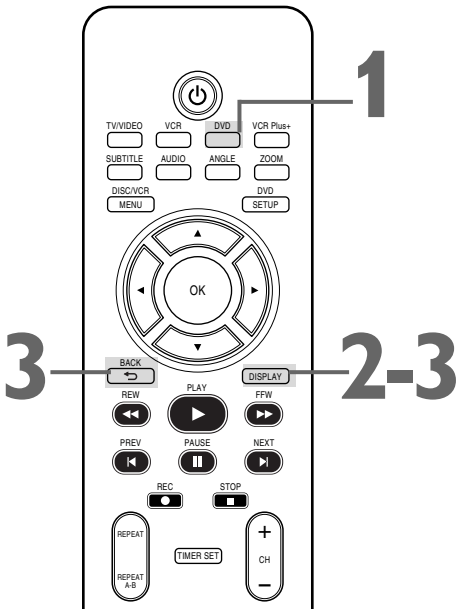
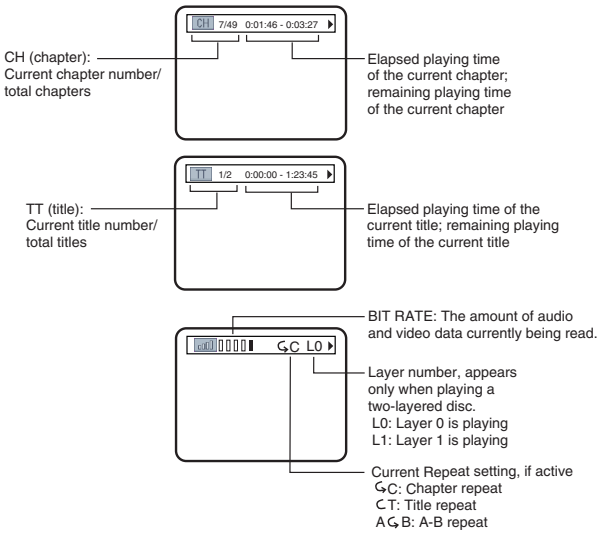
DVD Displays



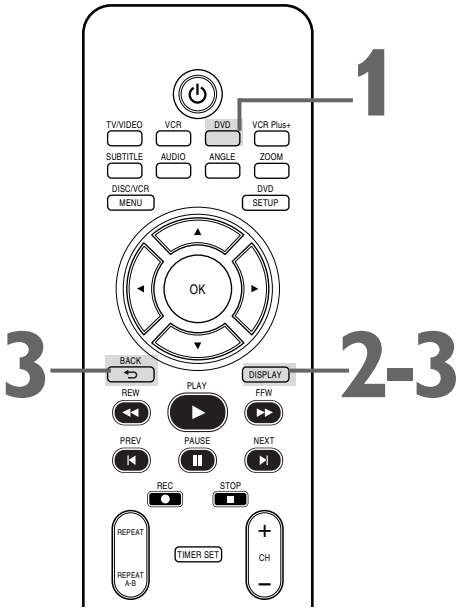
1 **Press DVD** to put the DVD/VCR in DVD mode.
DVD light will appear on the front of the DVD/VCR.

2 **Press DISPLAY repeatedly to see the following displays during DVD playback.**



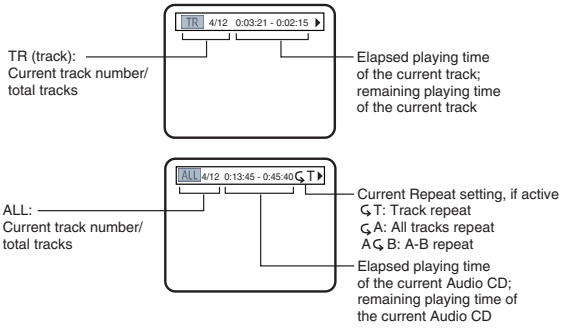
3 **Press DISPLAY repeatedly or press BACK ⮌ to remove the display.**

Video CD and Audio CD Displays



1 **Press DVD to put the DVD/VCR in DVD mode.**
DVD light will appear on the front of the DVD/VCR.

2 **Press DISPLAY repeatedly to see the following displays during Video CD (without PBC) or Audio CD play.**



3 **Press DISPLAY repeatedly or press BACK ⮌ to remove the display.**

English

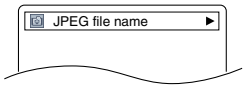
56 On-Screen Displays (cont'd)

MP3/Windows Media™ Audio/JPEG/DivX® Displays

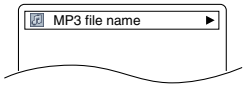
1 **Press DVD** to put the DVD/VCR in DVD mode.
DVD light will appear on the front of the DVD/VCR.

2 **Press DISPLAY repeatedly** until the current track or file information appears.

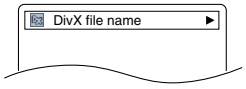
During JPEG playback



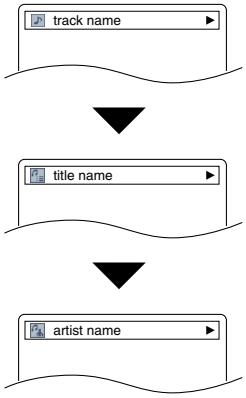
or
During MP3 playback

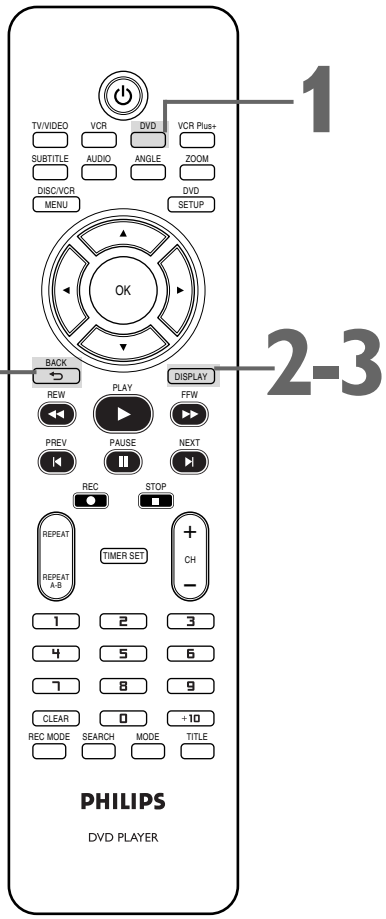


or
During DivX® playback

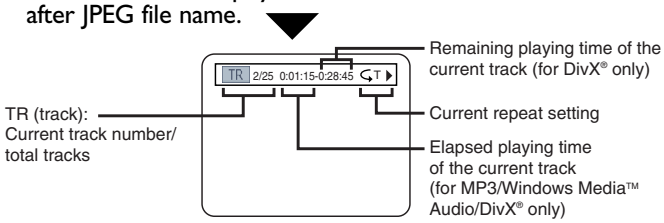


During Windows Media™ Audio playback





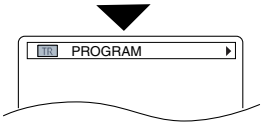
- If Dual Playback is on, MP3 file name will be displayed after JPEG file name.


TR 2/25 0:01:15-0:28:45 T
Remaining playing time of the current track (for DivX® only)
TR (track): Current track number/ total tracks
Current repeat setting
Elapsed playing time of the current track (for MP3/Windows Media™ Audio/DivX® only)

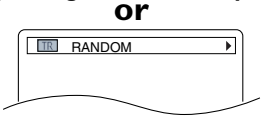
Example: DivX® playback

The following may appear to indicate Repeat Playback.

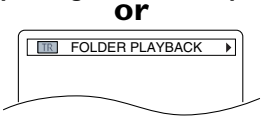
- T: The current track will play repeatedly.
- G: Tracks in the current folder (group) will play repeatedly.
- A: All tracks will play repeatedly.



only during PROGRAM Playback
or



only during RANDOM Playback
or



only during FOLDER Playback

- Program and Random Playback is available only when DUAL PLAYBACK is OFF.
- Folder Playback is available only when DUAL PLAYBACK is ON.

3 **Press DISPLAY or BACK ⮌ to remove the display.**

Helpful Hint

- For MP3 files recorded with Variable Bit Rate (VBR), the elapsed time displayed on the screen may vary from the actual elapsed time.

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Black Level

Adjust Black Level to brighten the DVD, Video CD or DivX® picture.

1 **Press DVD to put the DVD/VCR in DVD mode.** DVD light will appear on the front of the DVD/VCR.

2 **During DVD, Video CD or DivX® playback, press MODE** so the Black Level icon shows in the top left corner of the TV screen.

ON

3 **While the Black Level icon is shown, press ◄, ► or OK repeatedly to choose ON or OFF.** ON brightens the dark parts of the picture. OFF shows the original picture as recorded. The icon will disappear after about 10 seconds.

Virtual Surround

You can enjoy improved stereo sound when you play DVDs, Video CDs, Audio CDs, MP3 or Windows Media™ Audio files recorded in Dolby Digital or Pulse Code Modulation (PCM). Check the disc case for details on availability.

1 **Press DVD to put the DVD/VCR in DVD mode.** DVD light will appear on the front of the DVD/VCR.

2 **During disc playback, press MODE** repeatedly until the Virtual Surround icon appears in the top left corner of the TV screen.

OFF

3 **While the Virtual Surround icon is shown, press ◄, ► or OK to choose 1 (Natural), 2 (Emphasized) or OFF.** The icon will disappear after about 10 seconds. The default setting is OFF.

Helpful Hints

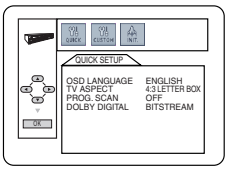
- Black Level is not available for a PAL DVD.
- Virtual Surround is available only when the player is connected to a Stereo or TV using the red and white AUDIO OUT jacks on the player.
- For Video CDs and Audio CDs, you can adjust Virtual Surround only if you set Stereo Sound to STEREO. *Details are on page 48.*
- The Black Level and the Virtual Surround settings will be saved even if the player is turned off.
- When the Virtual Surround function is active, 96 kHz sound source will be down sampled at 48 kHz, and output as 48 kHz sound.
- The Black Level and Virtual Surround Settings cannot be used during x1.3 and x0.8 Rapid Play with Voice (refer to page 41).

Initializing

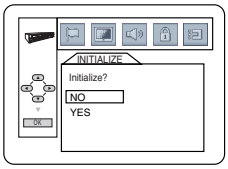
Use INITIALIZE to return all your DVD player's SETUP menu items (except PARENTAL) to their default settings.

1 **Press DVD to put the DVD/VCR in DVD mode.** DVD light will appear on the front of the DVD/VCR.

2 **While playback is stopped, press DVD/SETUP.** The QUICK SETUP screen appears.

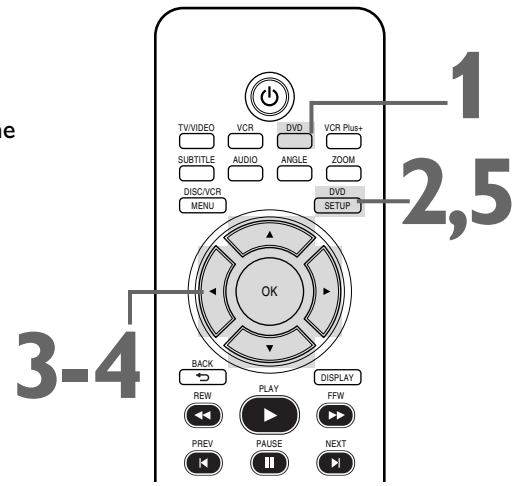


3 **Press ◄ or ► to select INIT. (INITIALIZE) at the top of the menu, then press OK.**



4 **Press ▲ or ▼ to select YES. Then, press OK twice.** To cancel the process, select NO instead.

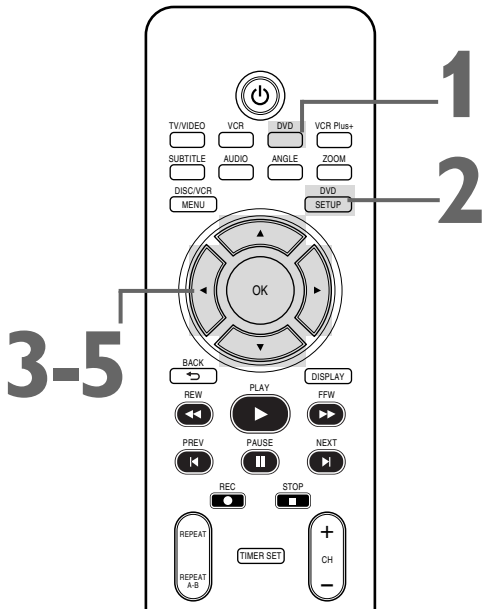
5 **Press DVD/SETUP to remove the menu.**



English

58 Language

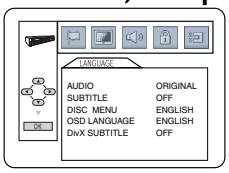
You can select different languages for the Audio or Subtitles of discs, as well as languages for the disc menus and the Setup menus of the DVD player.



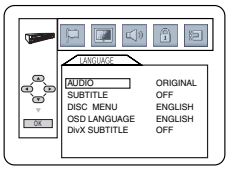
1 **Press DVD to put the DVD/VCR in DVD mode.** DVD light will appear on the front of the DVD/VCR.

2 **While playback is stopped, press DVD/SETUP.** The QUICK SETUP screen appears.

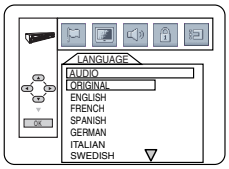
3 **Press ◄ or ► to select CUSTOM at the top of the menu, then press OK.**



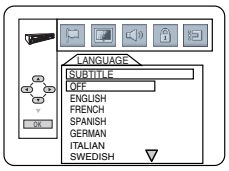
4 (LANGUAGE) will be selected. **Press OK.**



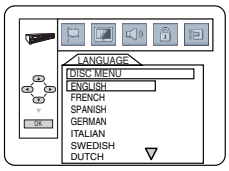
5 **Press ▲ or ▼ to select AUDIO, SUBTITLE, DISC MENU, OSD LANGUAGE or DivX® SUBTITLE. Press OK.** The language options for the selected item will appear.



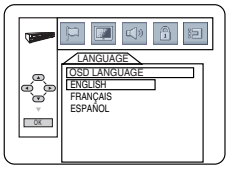
AUDIO: The DVD's audio plays in the selected language. The default setting is ORIGINAL.



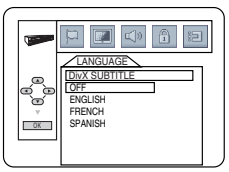
SUBTITLE: Subtitles appear in the selected language. The default setting is OFF.



DISC MENU: A DVD's Disc menu appears in the selected language. The default setting is ENGLISH.



OSD LANGUAGE: The DVD player's Setup menu can be in English, French or Spanish only. The default setting is ENGLISH.



DivX® SUBTITLE: DivX® subtitle appear in the selected language. The default setting is OFF.

Helpful Hints

- If the DVD's default settings for Audio and Subtitle are the same language, the subtitles may not show unless you turn them on.
- Use the AUDIO and SUBTITLE buttons to select Audio and Subtitles available on the DVD. *Details are on pages 47-48.*
- If you set AUDIO to ORIGINAL, the default setting of the DVD Audio will play.
- If you set OSD LANGUAGE to FRANÇAIS (French) or ESPAÑOL (Spanish) and need English: Follow steps 1-2. At step 3, the IDIOMA or LANGUE menu will appear. Press OK. Press ▼ to select LANGUE OSD or IDIOMA PANT., then press OK. Press ▲ to select ENGLISH, then press OK. The menus will change to English. Press DVD/SETUP to remove the menus.
- You can change the OSD LANGUAGE in the QUICK SETUP menu that appears when you first press DVD/SETUP. With QUICK selected, press OK. OSD LANGUAGE will be selected. Press OK. Press ▲ or ▼ to choose a language, then press OK. Press DVD/SETUP to remove the menu.
- The language settings may not take effect until you restart disc playback from the beginning.

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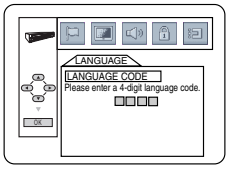
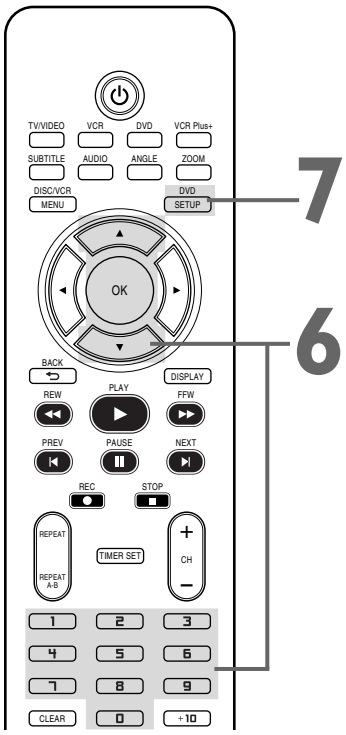
6 **Press ▲ or ▼ to select a language, then press OK.** The language lists may continue on multiple screens. Press ▲ or ▼ to move to the other screens.

- **If you select OTHER for AUDIO, SUBTITLE, or DISC MENU, press four Number buttons to enter the code** for the language you desire. Use one of the Language Codes listed below. The language or language code you select will appear in the Language menu beside AUDIO, SUBTITLE, or DISC MENU.



- You can select other languages for AUDIO, SUBTITLE and DISC MENU only if the language is available on the disc. If the language you select is not recorded on the DVD, changing these settings will have no effect.

7 **Press DVD/SETUP to remove the menu.**



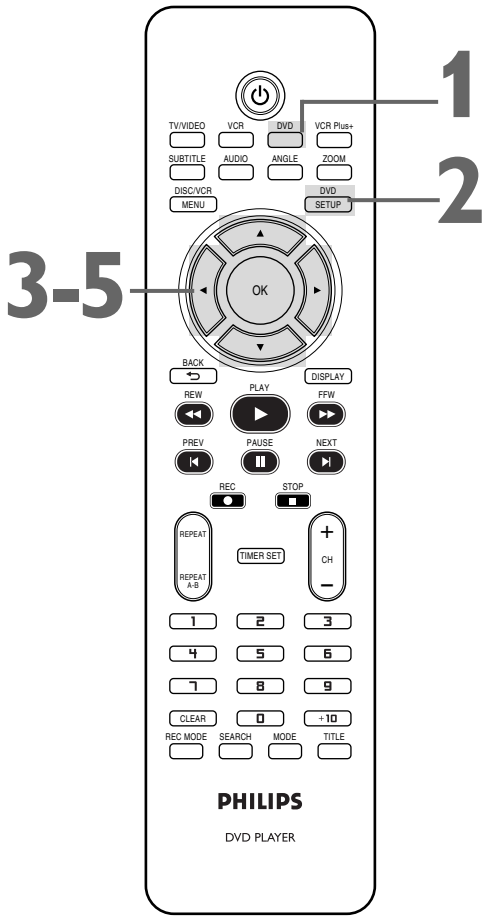
Language Codes

A-B		English	5160	Kannada	5760	Panjabi	6247	T	
Abkhazian	4748	Esperanto	5161	Kashmiri	5765	Pashto	6265	Tagalog	6658
Afar	4747	Estonian	5166	Kazakh	5757	Persian	5247	Tajik	6653
Afrikaans	4752	F-H		Kinyarwanda	6469	Polish	6258	Tamil	6647
Albanian	6563	Faroese	5261	Kirghiz	5771	Portuguese	6266	Tatar	6666
Amharic	4759	Fiji	5256	Kirundi	6460	Pushto	6265	Telugu	6651
Arabic	4764	Finnish	5255	Korean	5761	Quechua	6367	Thai	6654
Armenian	5471	French	5264	Kurdish	5767	Rhaeto-Romance	6459	Tibetan	4861
Assamese	4765	Frisian	5271	L-N		Romanian	6461	Tigrinya	6655
Aymara	4771	Gaelic (Scots)	5350	Laothian	5861	Russian	6467	Tonga	6661
Azerbaijani	4772	Galician	5358	Latin	5847			Tsonga	6665
Bangla	4860	Georgian	5747	Latvian	5868	S		Turkish	6664
Bashkir	4847	German	5051	Lettish	5868	Samoan	6559	Turkmen	6657
Basque	5167	Greek	5158	Lingala	5860	Sangho	6553	Twi	6669
Bengali	4860	Greenlandic	5758	Lithuanian	5866	Sanskrit	6547	U-Z	
Bhutani	5072	Guarani	5360	Macedonian	5957	Serbian	6564	Ukrainian	6757
Bihari	4854	Gujarati	5367	Malagasy	5953	Serbo-Croatian	6554	Urdu	6764
Bislama	4855	Hausa	5447	Malay	5965	Sesotho	6566	Uzbek	6772
Breton	4864	Hebrew	5569	Malayalam	5958	Setswana	6660	Vietnamese	6855
Bulgarian	4853	Hindi	5455	Maltese	5966	Shona	6560	Volapuk	6861
Burmese	5971	Hungarian	5467	Maori	5955	Sindhi	6550	Welsh	4971
Byelorussian	4851	I-K		Marathi	5964	Singhalese	6555	Wolof	6961
C-E		Icelandic	5565	Moldavian	5961	Siswat	6565	Xhosa	7054
Cambodian	5759	Indonesian	5560	Mongolian	5960	Slovak	6557	Yiddish	5655
Catalan	4947	Interlingua	5547	Nauru	6047	Slovenian	6558	Yoruba	7161
Chinese	7254	Interlingue	5551	Nepali	6051	Somali	6561	Zulu	7267
Corsican	4961	Inupiak	5557	Norwegian	6061	Spanish	5165		
Croatian	5464	Irish	5347	O-R		Sundanese	6567		
Czech	4965	Italian	5566	Occitan	6149	Swahili	6569		
Danish	5047	Japanese	5647	Oriya	6164	Swedish	6568		
Dutch	6058	Javanese	5669	Oromo (Afan)	6159				

English

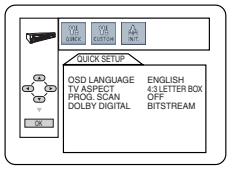
60 Display

You may adjust the TV Aspect ratio and still mode clarity, and Progressive Scan compatibility.

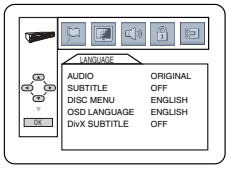


1 **Press DVD to put the DVD/VCR in DVD mode.**
DVD light will appear on the front of the DVD/VCR.

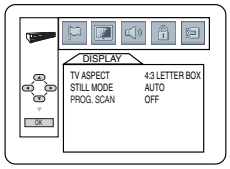
2 **When playback is stopped, press DVD/SETUP.**
The QUICK SETUP screen will appear.



3 **Press ◄ or ► to select CUSTOM at the top of the menu, then press OK.**



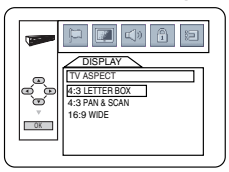
4 **Press ◄ or ► to select (DISPLAY), then press OK.**



5 **Press ▲ or ▼ to select an item, then press OK.**

- **If you selected TV ASPECT, press ▲ or ▼ to select a setting, then press OK.**
  Choose 4:3 LETTER BOX if you want to see the entire, widened picture with black bars at the top and bottom of the screen. This looks like the picture you see when watching movies in a theater. This setting is possible only if the DVD was recorded in the letterbox or widescreen format.
  Choose 4:3 PAN & SCAN for a full height picture, with both sides trimmed. Some companies refer to this as reformatting the picture to fit your TV screen and may call it the regular or normal format.
  Choose 16:9 WIDE if you connected a widescreen TV to the DVD player.

  The default setting is 4:3 LETTER BOX.



TV ASPECT

Helpful Hints

- Selecting a different TV ASPECT setting is only effective if it is available on the DVD. Check the DVD Disc menu or case for details.
- You also can adjust TV ASPECT in the QUICK SETUP menu that appears when you first press the DVD/SETUP. With QUICK selected, press OK. Press ▼ to select TV ASPECT, then press OK. Press ▲ or ▼ to choose a setting, then press OK. Press DVD/SETUP to remove the menu.
- This unit does not set the TV aspect automatically.

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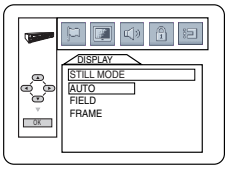
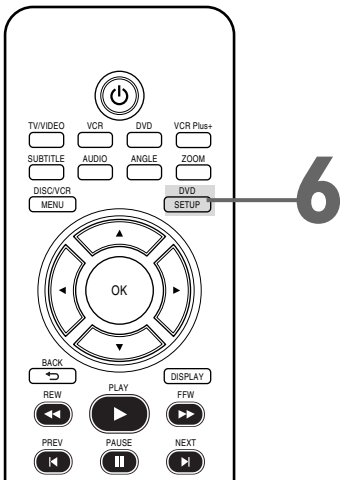
● **If you selected STILL MODE, press ▲ or ▼ to select a setting, then press OK.** This determines the quality of an image in still mode.
If you select FIELD, still images will be stabilized but coarse due to the small amount of data.
If you select FRAME, the images will be highly defined due to the simultaneous output of two fields.
The default setting is AUTO.



STILL MODE

6 **Press DVD/SETUP to remove the menu.**



Progressive Scan

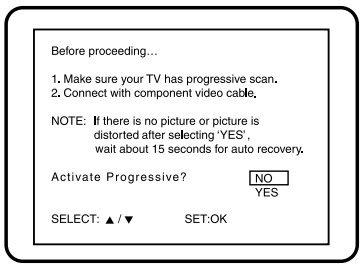
You may adjust the Progressive Scan compatibility.

1 **Follow the steps 1-4 in the Display setup on page 60.**

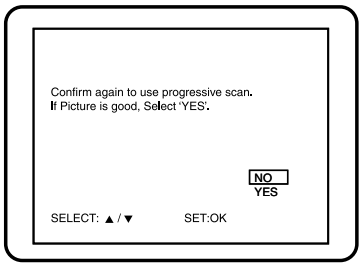
2 **Press ▲ or ▼ to select PROG. SCAN, then press OK repeatedly to turn PROG. SCAN ON or OFF.**
Choose ON if your TV has Progressive Scan and if the TV is connected to the player's COMPONENT VIDEO OUT jacks. Choose OFF otherwise.
The default setting is OFF.

3 **Press DVD/SETUP to remove the menu.**

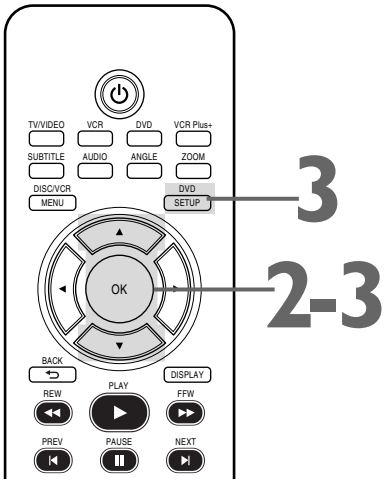
● If PROG. SCAN is ON, this message appears:


Before proceeding…
1. Make sure your TV has progressive scan.
2. Connect with component video cable.
NOTE: If there is no picture or picture is distorted after selecting 'YES', wait about 15 seconds for auto recovery.
Activate Progressive?
NO
YES
SELECT: ▲/▼
SET:OK

Press ▲ or ▼ to make a selection, then press OK.
If you select NO, the menu disappears and PROG. SCAN is OFF. If you select YES, this appears:



Confirm your setting, then press OK. The menu will disappear and the Progressive Scan function will be activated.
If you do not press any buttons for 15 seconds, Progressive Scan will switch to OFF.



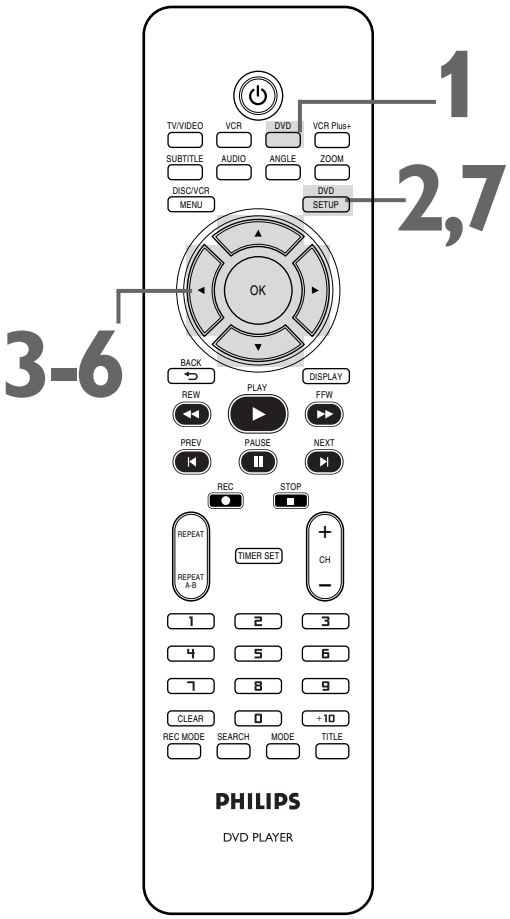
Helpful Hints

- You can set PROG. SCAN to OFF either in the DISPLAY menu or by pressing and holding PLAY ► on the front of the player for more than 5 seconds.
- You can adjust Progressive Scan setting in the QUICK SETUP menu that appears when you first press DVD/SETUP. With QUICK selected, press OK. Press ▼ to select PROG. SCAN. Press OK to choose OFF or ON. Press DVD/SETUP to remove the menu.

English

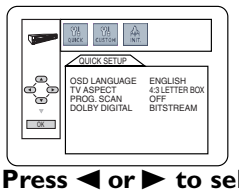
62 Audio

Change Audio settings based on other equipment you connected to the DVD player or according to your disc sound features. These setting only affect the Audio from the DVD player of the DVD/VCR.

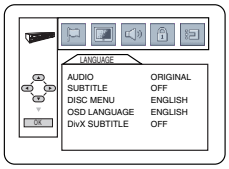


1 **Press DVD to put the DVD/VCR in DVD mode.**
DVD light will appear on the front of the DVD/VCR.

2 **While playback is stopped, press DVD/SETUP.**
The QUICK SETUP screen will appear.

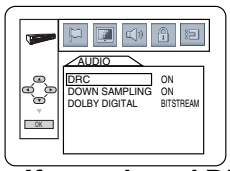


3 **Press ◄ or ► to select CUSTOM** at the top of the menu, **then press OK.**



4 **Press ◄ or ► to select (AUDIO) at the top of the menu, then press OK.**

5 **Press ▲ or ▼ to select DRC, DOWN SAMPLING, or DOLBY DIGITAL, then follow step 6 accordingly.**



6

- **If you selected DRC, press OK repeatedly to turn Dynamic Range Control (DRC) On or Off.** Choosing ON compresses the range of volume by suppressing loud sounds and raising low sounds. DRC is available only on discs recorded in the Dolby Digital format.
  The default setting is ON.
- **If you selected Down Sampling, press OK repeatedly to choose ON or OFF.** Choose ON to down sample the 96 kHz sound source to 48 kHz. Choose OFF to output the sound source without any down sampling.
  DOWN SAMPLING is available only when the player is connected to a Stereo using the COAXIAL DIGITAL AUDIO OUT jack as described on page 14.
  The default setting is ON.
- **If you selected Dolby Digital, press OK repeatedly to select BITSTREAM or PCM.** Select BITSTREAM if you used the COAXIAL DIGITAL AUDIO OUT jack to connect the DVD player to a stereo that is Dolby Digital compatible. *Details are on page 14.* Otherwise, choose PCM.
  The default setting is BITSTREAM.

7 **Press DVD/SETUP to remove the menu.**

Helpful Hints

- Dolby Digital sound must be available on the DVD.
- You can adjust DOLBY DIGITAL in the QUICK SETUP menu that appears when you first press DVD/SETUP. With QUICK selected, press OK. Press ▼ to select DOLBY DIGITAL. Press OK to choose BITSTREAM or PCM. Press DVD/SETUP to remove the menu.
- When you play a disc that has copyright protection, downsampling will be at 48 kHz, even if you set DOWN SAMPLING to OFF.

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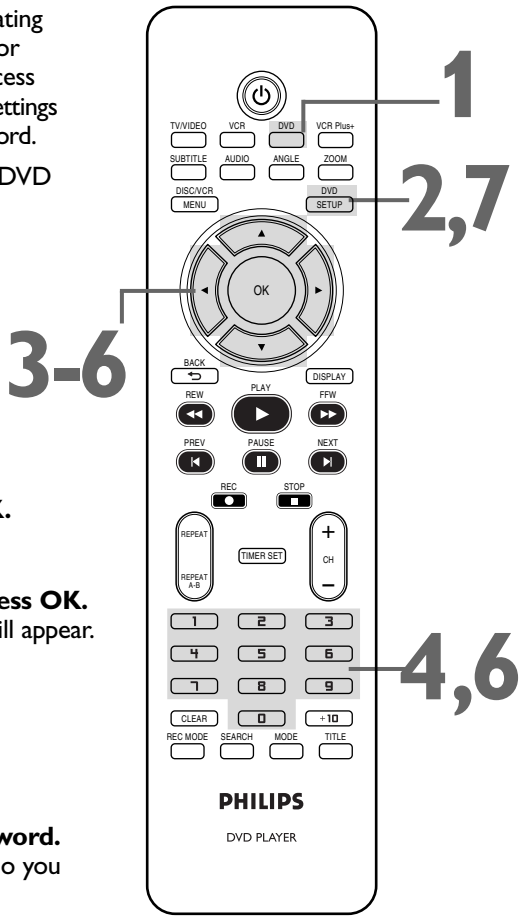
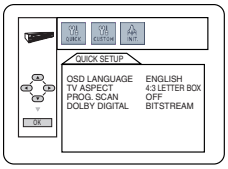
Parental Password 63

Parental Controls prevents viewing of DVDs that exceed your rating limits. This feature will not limit viewing if the DVD is not rated or coded. Check your DVDs and settings before letting children access the DVD/VCR. You will need a password to change the Parental settings or to play a blocked disc. Follow these steps to change your password.



1 **Press DVD to put the DVD/VCR in DVD mode.** DVD light will appear on the front of the DVD/VCR.

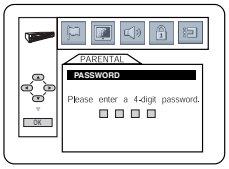
2 **While playback is stopped, press DVD/SETUP.** The QUICK SETUP screen appears.



3 **Press ◄ or ► to select CUSTOM, then press OK.**

4 **Press ◄ or ► to select (PARENTAL), then press OK.**

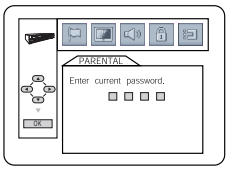
- If this is the first time you set a password, this menu will appear.



Press the Number buttons to enter a 4-digit password. The password will appear on the screen. Write it down so you will not forget it.

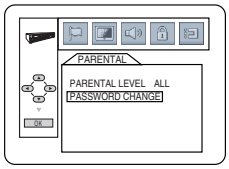
Press OK, and proceed to step 7.

- If you have set a password before, this menu will appear.



Press the Number buttons to enter your current 4-digit password. Asterisks (*) will appear instead of your password. This protects its identity. **Press OK, and proceed to step 7.**

5 If you like to change the password, **press ▲ or ▼ to select PASSWORD CHANGE, then press OK.**



6 **Press the Number buttons to enter a 4-digit password.** The password numbers will appear on the screen. Write down the password so you will not forget it. **Press OK.** The previous menu will reappear.

7 **Press DVD/SETUP** to remove the menu.

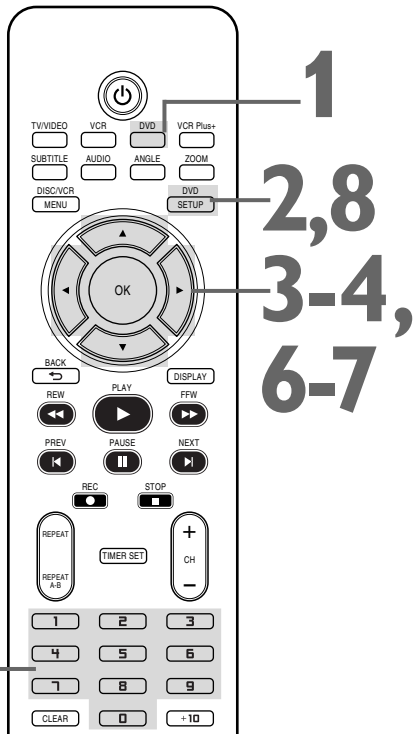
Helpful Hints

- The default password is 4737. If you forget your password, press Number buttons 4, 7, 3, 7 at step 4. You will be prompted to enter a new 4-digit password. Use the Number buttons to enter a new 4-digit password, then press OK. PARENTAL LEVEL will reset to ALL. See page 64 to reset PARENTAL LEVEL as you desire.
- A power failure will not erase your password.

English

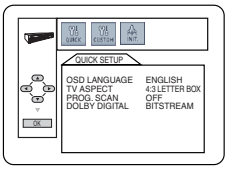
64 Parental Levels

Follow these steps to set the rating level for your DVDs. DVDs whose ratings exceed the level you set will not play.

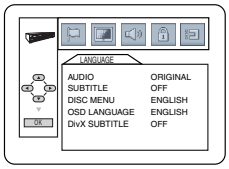


1 **Press DVD to put the DVD/VCR in DVD mode.**
DVD light will appear on the front of the DVD/VCR.

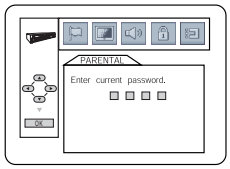
2 **While playback is stopped, press DVD/SETUP.**
The QUICK SETUP screen appears.



3 **Press ◄or ► to select CUSTOM** at the top of the menu, **then press OK.**

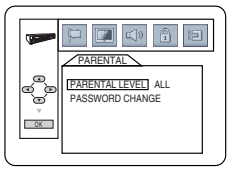


4 **Press ◄or ► to select (PARENTAL),** at the top of the menu, **then press OK.**

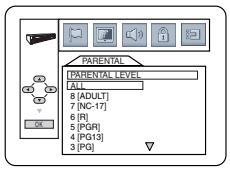


5 **Press the Number buttons to enter your 4-digit password.**

6 **Press ▲ or ▼ to select PARENTAL LEVEL, then press OK.**



7 **Press ▲ or ▼ to select a level, then press OK.**
The rating levels continue on two menu screens. Press ▲ or ▼ repeatedly to move to the next or previous screen to find the rating level you want.
After making your selection, the previous menu will appear. The level you selected will appear beside PARENTAL LEVEL.



8 **Press DVD/SETUP to remove the menu.**

RATING EXPLANATIONS

- ALL : Parental Control is inactive; all discs can play.
- 8 [ADULT]: DVD softwares of any grades (adult/general/children) can be played back.
- 7 [NC-17]: No one under 17 admitted
- 6 [R]: Restricted; under 17 requires accompanying parent or adult guardian
- 5 [PGR]: Parental Guidance Recommended
- 4 [PG13]: Unsuitable for children under 13
- 3 [PG]: Parental Guidance suggested
- 2 [G]: General Audience
- 1 [KID SAFE]: Suitable for children

Helpful Hints

- When you try to play a DVD whose rating exceeds the level you set, an on-screen message will indicate the DVD cannot play. Remove the DVD, then set PARENTAL LEVEL to ALL. Reload the DVD and begin playback. Some DVDs may let you enter your 4-digit password to begin playback. Follow the on-screen messages as prompted.
- You cannot use the default password (4737) to play a DVD.

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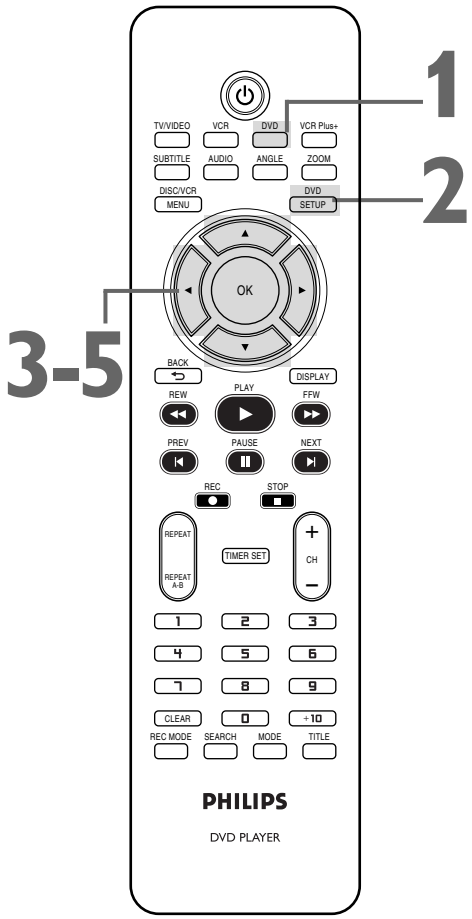
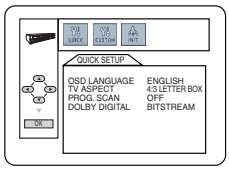
You may adjust the Angle Icon, Automatic Power Off, Dual Playback and Slide Show settings.

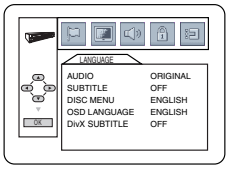


1 **Press DVD to put the DVD/VCR in DVD mode.**
DVD light will appear on the front of the DVD/VCR.

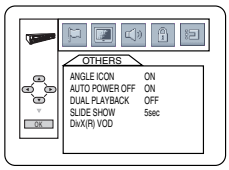
2 **While playback is stopped, press DVD/SETUP.**
The QUICK SETUP screen appears.



3 **Press ◄ or ► to select CUSTOM at the top of the menu, then press OK.**



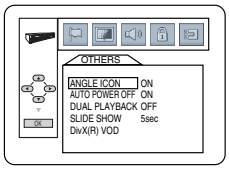
4 **Press ◄ or ► to select (OTHERS), then press OK.**



5 **Press ▲ or ▼ to select an item, then press OK.**

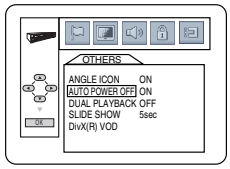
- **If you selected ANGLE ICON, press OK repeatedly to select ON or OFF.** Choose ON to see the Angle icon when multiple camera angles are available during DVD playback. *Details are on page 47.* Choose OFF to disable the Angle icon.

  The default setting is ON.



ANGLE ICON

- **If you selected AUTO POWER OFF, press OK** repeatedly to choose ON or OFF. Choose ON if you want the player to turn off when there is no activity at the player or its remote for 30 minutes. The default setting is ON.



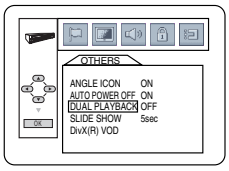
AUTO POWER OFF

Instructions continue on the next page.

66 Others (cont'd)

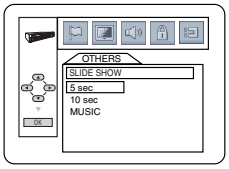
Instructions continued from the previous page.

- **If you selected DUAL PLAYBACK, press OK to choose ON or OFF.** This feature lets you play MP3 and JPEG files simultaneously.
  The default setting is OFF.



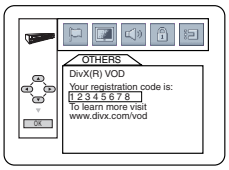
DUAL PLAYBACK

- **If you selected SLIDE SHOW, press ▲ or ▼ to choose 5sec, 10sec or MUSIC, then press OK.** This adjusts the playback speed of the SLIDE SHOW.
  Choose 5 sec to display each image for 5 seconds.
  Choose 10 sec to display each image for 10 seconds.
  Choose MUSIC to display an image for each MP3 sound file playback when DUAL PLAYBACK is ON.
  The default setting is 5 sec.



SLIDE SHOW

- **DivX(R) VOD: Acquire DivX® VOD registration code**
  This DVD/VCR allows you to play back the files purchased or rented from DivX® Video-On-Demand (VOD) services. The files are available on the internet. When you purchase or rent DivX® VOD files on the internet, you will be asked to enter a registration code. This menu item provides you with the registration code. One registration code is only valid for one DivX® VOD file. You must first download the file from the internet and play it back on this DVD/VCR before you are able to get another code. You must follow this step every time you purchase or rent a DivX® VOD file from the internet. For more information for DivX®, please visit http://www.divx.com/vod.



DivX(R) VOD

6 **Press DVD/SETUP to remove the menus.**

6

5

Helpful Hint

- When MUSIC is selected, the playback speed of the SLIDE SHOW will be set to 5 seconds under the conditions listed below:
  - When DUAL PLAYBACK is OFF.
  - When DUAL PLAYBACK is ON, but only the JPEG files are playing.

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AUDIO IN/OUT Jacks: jacks on the front and back of the DVD/VCR that receive audio from another source (IN) or send audio to another system (OUT). These jacks are red (right) and white (left).

Automatic Channel Setup: process in which the VCR memorizes all available TV channels. Then, when you press CH + or CH - in VCR mode, you only scan through channels you receive.

Bands: settings that allow you to tune channels.

- **Antenna** – VHF (very high frequency; channels 2-13) and UHF (ultra high frequency; channels 14-69).
- **Cable** – standard channels 1-125 can be available without a Cable Box.

Cable Box/Satellite Receiver Output Channel: 03 or 04.

COAXIAL DIGITAL AUDIO OUT jack: Sends digital audio to a Stereo, allowing you to adjust the volume at the Stereo. This connection provides the Multi-channel surround sound as heard in movie theaters. This jack on the DVD/VCR is black.

COMPONENT VIDEO OUT (Y C_B/P_B C_R/P_R) Jacks: jacks on the back of the DVD/VCR that send high-quality DVD video to a TV with Component Video In jacks. This connection provides the best picture quality for the DVD player of the DVD/VCR.

Dolby Digital: A surround sound system that provides Multi-channel sound as used in movie theaters.

Dubbing: copying a video cassette using another VCR.

HQ: high quality; a feature in the VCR circuitry which provides enhanced picture detail.

Line Input: The channel to which you set your DVD/VCR during video cassette copying. If you connected the other video equipment to the AUDIO and VIDEO In jacks on the front of the DVD/VCR, select L2. If you used the AUDIO and VIDEO IN jacks on the back of the DVD/VCR, select L1. If you accidentally enter line input mode, press CH + or CH - or the Number buttons to select another channel.

OTR: One-Touch Recording; a timed recording on the VCR that starts immediately and records for 30 minutes to 8 hours.

RF coaxial cable: A black cable supplied with your DVD/VCR. Use it to connect your DVD/VCR to your TV, Cable Box or Satellite Receiver.

S-Video: Produces a clearer DVD picture by sending separate signals for the luminance and the color. S-Video only provides a picture for the DVD player of the DVD/VCR.

Tape Speeds: how fast the video cassette travels during a recording or playback. The faster the tape speed, the better the picture quality. Slower tape speeds affect picture quality, but you can record more onto a videotape.

- **SP** (Standard Playback) – fastest tape speed (recording time for a T120 tape is approximately 2 hours); best picture quality.
- **LP** (Long Playback) – average tape speed. You cannot record in LP with this VCR. If tapes were recorded on a different VCR in LP speed, the tape will play in LP on the DVD/VCR.
- **SLP** (Super Long Playback) – slowest tape speed (recording time for a T120 tape is approximately 6 hours). This speed allows the maximum recording on a single videotape.

VIDEO IN/OUT Jacks: jacks on the front and back of the DVD/VCR that receive video from another source (IN) or send video to other video equipment or a TV (OUT). These jacks are yellow.

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68 Helpful Hints

If you are having problems with your product, check this list of problems and possible solutions before requesting service. You may be able to solve the problem yourself.
If you need to call a customer service representative, please know the model number and serial number of your product before you call. This information is displayed on the back of the product. Also, please take a moment to identify the problem you are having, and be prepared to explain this to the representative. If you believe the representative will need to help you with operations, please stay near the product. Our representatives will be happy to assist you.
For online reference, please visit our web site at http://www.philips.com/usasupport

The DVD/VCR has no power.
- Make sure the power cord is connected completely to an AC (alternating current) outlet.
- Press ⏻ to turn on the DVD/VCR. The DVD/VCR usually turns on in the mode it was in when you turned it off. If there has been a power failure, it will turn on in VCR mode. Press DVD to put the unit in DVD mode. Press VCR to put the unit in VCR mode. Or, press SOURCE on the front of the DVD/VCR to switch between the two modes.

The remote control will not operate the DVD/VCR.
- Aim the remote control directly at the remote sensor on the front of the DVD/VCR, not toward the TV. *Details are on page 20.*
- Remove all obstacles between the remote control and the DVD/VCR.
- Inspect and/or replace the batteries in the remote control. *Details are on page 15.*
- Use the remote control within 23 feet (7m) of the DVD/VCR.
- When using the DVD player, press the DVD button, then try the other DVD feature buttons. Press DVD so DVD light appears on the front of the DVD/VCR. This means the DVD/VCR is in DVD mode.
- To use the VCR, press VCR, then try the other VCR feature buttons. Press VCR so VCR light appears on the front of the DVD/VCR. This means the DVD/VCR is in VCR mode.

There is no picture in DVD mode.
- Make sure the video cable is connected correctly. You may connect either the yellow video cable (supplied), an optional S-Video cable, or optional component video cables. Make sure the TV is set to the correct Video In channel (usually the AUX IN, A/V IN, Auxiliary In, EXT or External In, Component Video In or S-Video In channel). Check your TV owner's manual for details. *Details are on pages 8 and 12-14.*
- If you only used the supplied black RF coaxial cable, *details are on pages 9-11.* Make sure the TV is set to channel 3 or 4 (the output channel of the DVD/VCR). Or, if you have a Cable Box/Satellite Receiver, make sure the TV is set to the Cable Box/Satellite Receiver output channel (usually 03 or 04).
- Insert a DVD that is playable on this DVD/VCR. *Details are on page 7.*
- Make sure the DVD/VCR is in DVD mode. Press DVD or SOURCE so DVD light appears on the front of the DVD/VCR.
- Check if Progressive Scan is set correctly according to your connection to a TV. *Details are on page 8.* Enable Progressive Scan at the DVD player only if you used the Component Video connection to a TV that has Progressive Scan. *Details are on pages 8, 12 and 61.*

Disc cannot be played.
- Insert a playable disc. *Details are on page 7.*
- Place the disc correctly in the disc tray. If the disc is one-sided, place the disc in the tray with the label facing up. If the disc is two-sided, make sure the label of the side you want to play is facing up.
- Clean the disc. Make sure the disc is not scratched or warped.
- Cancel the Parental Controls, enter the password or change the control level. *Details are on pages 63-64.*
- Make sure the disc is labelled for use in Region 1 or ALL regions and is NTSC or PAL compatible. *Details are on page 7.*

There is no sound.
- Connect the audio cable firmly. Make sure the cables are connected to the AUDIO IN jacks on the TV or Stereo. *Details are on pages 12-13.*
- Check the audio settings of the DVD player. *Details are on page 62.*
- Check the audio settings of the DVD. For example, you may have selected "soundtrack" playback or an unavailable sound setting (such as Dolby Digital). *Details are on pages 48 and 62.* Try other sound options provided in the DVD Disc menu.
- If you used audio cable (instead of only using the supplied black RF coaxial cable) make sure the TV or Stereo is set to the correct Audio In channel (usually the AUX IN, Auxiliary In, A/V IN, Audio In or External In channel). See your TV or Stereo owner's manual for details.

The picture is distorted.
- Connect the DVD/VCR directly to the TV. *Details are on pages 8-14.* Do not connect the DVD/VCR to a VCR, then connect the VCR to the TV. Copyright protection systems in the VCR could distort the picture playing on the DVD/VCR.
- There are some cases where a disc or videotape picture may be distorted slightly because of the quality in which it was recorded. This is not a malfunction of the DVD/VCR.
- Make sure the disc is compatible with the DVD player of the DVD/VCR. *Details are on page 7.*
- If your TV is not PAL compatible, DVDs recorded in the PAL color system may play only in black and white, the picture may roll continuously, or the picture may appear distorted.

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You cannot change the camera angle of a DVD.
- The DVD might not contain segments recorded from different camera angles. See if multiple angles are available by referring to the disc case or DVD Disc menu. *Details are on page 47.*

You cannot change the audio or subtitle language of a DVD.
- The DVD does not contain audio or subtitles in the desired language. Not all DVDs contain audio or subtitles in multiple languages. See if other languages are available by referring to the disc case or DVD Disc menu. *Details are on pages 47-48.*

An X appears in the top right corner of the TV screen when you try a DVD feature.
- The operation is not available at the current time or the feature is not available on the disc. Some features are only available during playback. Others can be accessed only if playback is stopped. Try stopping or playing the disc, then try the feature again.

The DVD/VCR switches from DVD mode to VCR mode after 30 minutes of no activity.
- When AUTO POWER OFF is set to ON, the DVD/VCR switches itself from DVD mode to VCR mode if disc playback stops for more than 30 minutes and you press no buttons on the remote or the DVD/VCR. *Details are on pages 65-66.* This prevents possible damage to your TV's picture tube that can occur if a still image is left on too long.

A screen saver appears on the TV screen during DVD mode.
- The DVD logo will appear on the TV screen when you stop disc playback. You cannot remove it.

You want to use the DVD player during a VCR timer recording or while "⏲" appears on the display panel.
- Press ⏻ to turn on the DVD/VCR. Press DVD to choose DVD mode, then continue with other DVD features as described in this manual.

A maximum of 999 MP3/Windows Media™ Audio/JPEG files can be recognized.

Power Failure
- Clock setting, language selection and channel setup may be lost if the power fails. See pages 21-23 to set up the channels, clock and language again.

The VCR will not record a TV program.
- Put the DVD/VCR in VCR mode. Press VCR or SOURCE so VCR light appears on the front of the DVD/VCR.
- Check the connections between the DVD/VCR, TV, antenna/Cable TV signal and Cable Box/Satellite Receiver (if applicable). *Details are on pages 9-14.* For VCR features, you must connect the DVD/VCR to a TV with the RF coaxial cable or the yellow video cable as described on pages 9-12.
- Make sure the video cassette has a record tab. *Details are on page 24.*

The VCR will not perform a timer recording.
- Make sure the recording start and stop times are set correctly. *Details are on pages 28-29.*
- Make sure a tape is in the VCR and the tape has a record tab. *Details are on page 24.* If, after programming a timer recording, you press TIMER SET without putting a tape in the DVD/VCR, "⏲" will blink on the display panel.
- If the record tab on a tape is missing, the DVD/VCR will eject the tape. "⏲" will blink.
- Press TIMER SET to put the DVD/VCR in standby mode for the timer recording.
- Make sure the VCR clock is set. *Details are on page 22.*
- The VCR may not perform or continue a timer recording if the power fails.
- If you have a Cable Box/Satellite Receiver, set timer recordings differently. *Details are on page 10.*
- Finish programming a timer recording at least 5 minutes before it is set to begin.
- 12 p.m. is noon; 12 a.m. is midnight.

There is no picture or the picture is noisy or has streaks during video cassette playback.
- Put the DVD/VCR in VCR mode. Press VCR or SOURCE so VCR light appears on the front of the DVD/VCR.
- If you used the supplied RF coaxial cable to connect the DVD/VCR to the TV, make sure the TV is on the same channel as the DVD/VCR's output channel (03 or 04). The DVD/VCR's output channel is channel 3 when you receive it. To change it to channel 4, see page 9. Make sure channel 03 or 04 is properly adjusted at the TV.
  Or, if you connected the DVD/VCR to the TV using audio and video cables, select the correct Video In channel at the TV. *Details are on pages 8 and 12.*
- Adjust the tracking. *Details are on page 38.*
- TVs placed too close to the DVD/VCR can cause interference during tape playback. Move the DVD/VCR away from the TV.

The Number buttons won't work for TV channels above 69.
- Enter channel numbers as a 2-digit number. If you want to select channels 100 and above, enter channel numbers as a 3-digit number. If you do not have Cable TV, only channels 2-69 are available.

TV programs cannot be watched normally.
- Check the connections between the DVD/VCR, TV, antenna/Cable TV signal and Cable Box/Satellite Receiver (if applicable). *Details are on pages 9-14.*

Poor reception
- You may need to tune your TV again. Or, reset channels at the VCR using CHANNEL SET UP. *Details are on page 21.*

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70 Helpful Hints (cont'd)

You cannot insert a video cassette.
- Insert the tape, window side up, with the record tab facing you.
- Make sure a tape isn't already in the VCR by pressing STOP/EJECT ■▲ on the front of the DVD/VCR.
- Gently push on the center of the tape when putting it in the VCR. Never force the tape into the VCR.
- If a timer recording is set, you cannot insert a tape without a record tab.

You cannot remove the tape.
- Make sure the power plug is completely connected to a power outlet.
- If a timer recording has been set, press TIMER SET on the remote control or STOP/EJECT ■▲ on the front panel to cancel the timer standby mode temporarily. "⏲" will disappear from the display panel. Then, press STOP/EJECT ■▲ on the front of the DVD/VCR to eject the tape. Insert another tape and press TIMER SET to reset the timer recording.
- Unplug the DVD/VCR power cord for 5 minutes. Then, plug in the power cord again and press ⏻ on the DVD/VCR. Press STOP/EJECT ■▲ on the DVD/VCR 3 to 5 times. If the tape still does not eject, you may need to have an authorized servicer remove the tape.

DVD/VCR ejects the tape when you press REC ● or TIMER SET.
- Make sure the tape has a record tab. *Details are on page 24.*

Satellite Receiver Hookups
- Watching one TV channel while recording another may not be possible if you have a Satellite Receiver. Set your TV to channel 03 or 04, then make your channel selections at the Satellite Receiver.
- With many Satellite Receiver hookups, if you use audio and video cables to connect your DVD/VCR to your TV, you will have to put your DVD/VCR in line input mode (L1 or L2).

Line input mode
- If you accidentally enter line input mode (L1 or L2 will appear on your TV screen briefly), press CH + or CH - or the Number buttons to select another channel.

Hi-Fi Stereo Sound
- During playback, Hi-Fi audio may normally revert to normal audio when you adjust tracking.
- When connecting the DVD/VCR to a TV with the red and white audio cable, you will only get stereo sound if you connect the DVD/VCR AUDIO OUT jacks on the DVD/VCR to the AUDIO IN jacks on your TV, and if the TV is on its Audio/Video In channel. See your TV owner's manual for details.
- When you connect the DVD/VCR AUDIO OUT jacks on the DVD/VCR to the AUDIO IN jacks on your TV, the stereo light on the TV might not glow. If the Status Display indicates you are receiving stereo, you are. *Details are on page 39.*
- Only tapes recorded in Hi-Fi audio will play in Hi-Fi audio. Tapes recorded in normal audio will play in monaural (single-channel) audio.

Cleaning the Video Heads
- Your DVD/VCR automatically cleans the video heads of the VCR each time you insert a tape. However, the heads may become dirty. If so, have an authorized servicer clean the video heads. Eventually, the heads may need to be replaced.

The playback picture is too dim, too bright or fluctuates in brightness.
- Some programs may be broadcast with copyright protection technology in order to protect the rights of copyright owners. This technology is used on programs that are recorded on video cassettes or DVDs, as well as some programs broadcast by antenna/cable/satellite television channels. Programs broadcast with copyright protection may not record clearly. Likewise, if you play a tape that is a recording of a copyright protected program, the picture may not be clear. Tapes of copyright protected programs may have a picture that is dark or dim, or the brightness of the picture may fluctuate. Therefore, avoid recording or playing copies of copyright protected programs.

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Care and Maintenance 71

Cleaning the DVD/VCR
- Wipe the front panel and other exterior surfaces of the DVD/VCR with a soft, slightly damp cloth.
- Never use a solvent, thinner, benzene or alcohol to clean the DVD/VCR. Do not spray insecticide liquid near the DVD/VCR. Such chemicals may discolor the surface or damage the DVD/VCR.

Cleaning a Disc
- Use a soft, dry cloth to wipe the disc.
- Wipe the disc in a straight line from the center to the edge. Never wipe the disc in a circular motion.
- Do not use detergent or abrasive cleaning agents.
- Handle the discs so fingerprints and dust do not adhere to the discs.
- Always store the disc in its protective case when it is not in use.

Checking the Laser
- If the DVD/VCR does not operate as described in this manual, the DVD player's laser may be dirty. Consult an Authorized Service Center for inspection and cleaning of the laser.

Caring for Video Cassettes
- Use only cassettes with the VHS mark.
- Remove any light adhesive stick-on notes from the video cassette before putting the cassette in the VCR. Removable labels can jam the VCR.

Caring for the VCR's Video Heads
- Periodic maintenance is required to maintain your DVD/VCR's excellent performance. The VCR has an Automatic Head Cleaner. However, the video heads will require replacement eventually. Only an authorized service center should perform this service.

Specifications

VCR Video Heads
4 heads - Hi-Fi

Antenna
VHF/UHF – 75 ohm external antenna terminal

VHF Output Signal
Channel 03 or 04
75 ohms unbalanced

DVD Color System
NTSC

Frequency Response
DVD (linear sound):
20 Hz to 22 kHz (sample rate: 48 kHz)
20 Hz to 44 kHz (sample rate: 96 kHz)
Audio CD: 20 Hz to 20 kHz

Signal-to-Noise Ratio
Audio CD: 100 dB JEITIA
(Japan Electronics and Information Technology Industries Association)

Dynamic Range
DVD (linear sound): 90 dB
Audio CD: 85 dB (JEITIA)

Total Distortion Factor
Audio CD: 0.03% (JEITIA)
DVD: 0.03%

Wow and Flutter
Below the measurement limitation
(±0.001% W PEAK) (JEITIA)

Power Requirement
120V AC +/- 10%, 60 Hz +/- 0.5%

Power Consumption
Power on: 21 W
Power off: 3.8 W

Operating Temperature
41°F (5°C) to 104°F (40°C)

Relative Humidity
30% to 80%

Dimensions
17.1" (W) x 3.7" (H) x 9.2" (D)
(435mm x 94mm x 233mm)

Weight
6.0 lbs. (2.7 kg.)

NOTE: Designs and specifications are subject to change without notice.

72 Limited Warranty

PHILIPS LIMITED WARRANTY
ONE (1) YEAR

WARRANTY COVERAGE:
PHILIPS warranty obligation is limited to the terms set forth below.

WHO IS COVERED:
Philips warrants the product to the original purchaser or the person receiving the product as a gift against defects in materials and workmanship as based on the date of original purchase ("Warranty Period") from an Authorized Dealer. The original sales receipt showing the product name and the purchase date from an authorized retailer is considered such proof.

WHAT IS COVERED:
The Philips warranty covers new products if a defect arises and a valid claim is received by Philips within the Warranty Period. At its option, Philips will either (1) repair the product at no charge, using new or refurbished replacement parts, or (2) exchange the product with a product that is new or which has been manufactured from new, or serviceable used parts and is at least functionally equivalent or most comparable to the original product in Philips current inventory, or (3) refund the original purchase price of the product.
Philips warrants replacement products or parts provided under this warranty against defects in materials and workmanship from the date of the replacement or repair for ninety (90) days or for the remaining portion of the original product's warranty, whichever provides longer coverage for you. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes Philips' property. When a refund is given, your product becomes Philips' property.
Note: Any product sold and identified as refurbished or renewed carries a ninety (90) day limited warranty.

Replacement product can only be sent if all warranty requirements are met. Failure to follow all requirements can result in delay.

WHAT IS NOT COVERED - EXCLUSIONS AND LIMITATIONS:
This Limited Warranty applies only to the new products manufactured by or for Philips that can be identified by the trademark, trade name, or logo affixed to it. This Limited Warranty does not apply to any non-Philips hardware product or any software, even if packaged or sold with the product. Non-Philips manufacturers, suppliers, or publishers may provide a separate warranty for their own products packaged with the bundled product.

Philips is not liable for any damage to or loss of any programs, data, or other information stored on any media contained within the product, or any non-Philips product or part not covered by this warranty. Recovery or reinstallation of programs, data or other information is not covered under this Limited Warranty.

This warranty does not apply (a) to damage caused by accident, abuse, misuse, misapplication, or non-Philips product, (b) to damage caused by service performed by anyone other than Philips or Philips Authorized Service Location, (c) to a product or a part that has been modified without the written permission of Philips, or (d) if any Philips serial number has been removed or defaced, or (e) product, accessories or consumables sold "AS IS" without warranty of any kind by including refurbished Philips product sold "AS IS" by some retailers.

This Limited Warranty does not cover:
- Shipping charges to return defective product to Philips.
- Labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- Product repair and/or part replacement because of improper installation, connections to improper voltage supply, abuse, neglect, misuse, accident, unauthorized repair or other cause not within the control of Philips.
- Damage or claims for products not being available for use, or for lost data or lost software.
- Damage occurring to product during shipping.
- A product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- A product used for commercial or institutional purposes (including but not limited to rental purposes).
- Product lost in shipment and no signature verification receipt can be provided.
- Failure to operate per Owner's Manual.

TO OBTAIN ASSISTANCE IN THE U.S.A., PUERTO RICO, OR U.S. VIRGIN ISLANDS...
Contact Philips Customer Care Center at:
1-888-PHILIPS (1-888-744-5477)

TO OBTAIN ASSISTANCE IN CANADA...
1-800-661-6162 (French Speaking)
1-888-PHILIPS (1-888-744-5477) - (English or Spanish Speaking)

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Some states do not allow the exclusions or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.

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Philips, P.O. Box 671539, Marietta, GA. 30006-0026

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